ASCE 1973

COMBINED INDEX

AMERICAN
SOCIETY OF
CIVIL
ENGINEERS
FOUNDED
1852

ASCE 1973

Journals (Proceedings)
Civil Engineering,
Transactions,
Manuals and Reports,
and
Miscellaneous Publications

$5.00 (net)

INDEX TO 1973 ASCE PUBLICATIONS

FOREWORD

The 1973 index, which provides a guide to information published by ASCE during 1973, combines material appearing in the Journals (Proceedings Vol. 99), CIVIL ENGINEERING (Vol. 43), Transactions (Vol. 138), Manuals and Reports, and Miscellaneous Publications.

The user will find all articles and papers dealing with specific subject areas listed under one or more appropriate subject headings suggested by the content and application of the paper. The Engineers Joint Council "Thesaurus of Engineering Terms" has been used as the primary source of index terms. The Water Resources Thesaurus of the U.S. Department of the Interior and the Micro-Thesaurus compiled by the Soil Mechanics and Foundations Division of ASCE were also used.

The Index can be used in conjunction with the information-retrieval cards printed in the front of each Journal and to the rear of CIVIL ENGINEERING. The underlined and bold key words on the information-retrieval cards are the words used as index terms in the 1973 Index.

The name index contains entries indexed under the names of authors, co-authors, discussers, chairmen of committees preparing reports, and deceased members whose memoirs appeared in Transactions.

In the name index, the entry for a Proceedings Paper (under the first name if more than one author) is supplemented by information concerning the discussion, closure, and Transactions digest, if applicable. To find what discussion, if any, there has been for a Proceedings Paper located in the subject index, the reader looks under the entry for the first-named author in the name index. When discussion of a paper from a prior year is published, the original entry is repeated. Discussion over a period of time can be traced until the closure to the paper is located.

When the paper appears in Transactions, the complete entry including original paper, discussion, closure, errata (if applicable), and Transactions citation appears in the name index. The subject entry contains a citation to the original paper and the Transactions reference.

Typical abbreviations used herein are:

Dsc for discussion
Clo for closing discussion
Corr for corrections
Err for errata
Chmn for Chairman of a committee submitting a report
TR for Transactions
TN for Technical Note

Items indexed from ASCE Miscellaneous Publications have the following symbols in the references:

1. RM14—New Horizons in Rock Mechanics—Proceedings of the 14th Symposium on Rock Mechanics, June 11-14, 1972
2. TB—Proceedings of the International Conference on Planning and Design of Tall Buildings, August 21-26, 1972
3. ASC73—Airports—Challenges of the Future, March 7-9, 1973
4. STF—Structural Failures: Modes, Causes, Responsibilities, April, 1972
5. UNSANS—The Use of Underground Space to Achieve National Goals, 1972
6. PES—Performance of Earth and Earth-Supported Structures, Vol. II and Vol. III, June 11-14, 1972
7. HYB—Hydraulic Engineering and the Environment, 21st Annual Hydraulics Division Speciality Conference, Aug. 15-17, 1973
8. ISSF—International Symposium on Stratified Flow, Novosibirsk, USSR, August, 1972
9. EPMT—Effective Project Management Techniques, Symposium, San Francisco, Calif., 1973
10. SDNPC—Specialty Conference—Structural Design of Nuclear Plant Facilities, Chicago, Ill., 1973

The reference of the Proceedings of the International Conference on Planning and Design of Tall Buildings, TB:73:C-AC14-113 is deciphered in the following way. The first two letters indicate the publication, while the next two figures show the year of publication. The following letter or number shows the volume of the publication, while the next letters and numerals show the Technical Committee. When the letter is P it means that the item is a project description in Volume C; the letters AC in Volume C show that it is an Advisory Committee; DM indicates Miscellaneous Discussion in Volume C; the last numerals show the page number on which the indexed item begins.

Preprints are indicated by the words Preprint and the preprint number and date. They were presented at ASCE National Meetings as follows:

Preprints	*Meeting*	*City*	*Date*
1867-1918	Water Resources Engineering Meeting	Washington, D.C.	Jan. 9-Feb. 2, 1973
1919-2031	Structural Engineering Meeting	San Francisco, Calif.	April 9-13, 1973
2032-2062	Transportation Engineering Meeting	Tulsa, Okla.	July 9-13, 1973
2063-2116	Annual and Environmental Engineering Meeting	New York, N.Y.	Oct. 29-Nov. 1, 1973

Journal Abbreviations: Construction (CO), Engineering Mechanics (EM), Hydraulics (HY), Irrigation and Drainage (IR), Power (PO), Sanitary Engineering (SA), Soil Mechanics and Foundations (SM), Structural (ST), Surveying and Mapping (SU), Transportation Engineering (TE), Urban Planning and Development (UP), and Waterways, Harbors, and Coastal Engineering (WW). Papers sponsored by the Department of Professional Activities appear in "Engineering Issues—Journal of Professional Activities" and are identified by the symbols (PP). Papers appearing in the Transportation Engineering Journal of ASCE include papers approved by the Air Transport, Highway, Pipeline and Urban Transportation Divisions.

The original publication can be found from the index entry as follows: Papers appearing in the Journals (Proceedings) are listed as:

SM4:Apr 73:323:9687

which would indicate a paper published in the Journal of the Soil Mechanics and Foundations Division, April 1973 on page 323, as Proceedings Paper 9687.

The Transactions entry

TR:138:536

indicates that the Digest appears in Transactions, Volume 138, on page 536.

Articles and news items published in CIVIL ENGINEERING are represented as:

CE:Aug 73:52

which states that the article appeared in CIVIL ENGINEERING in the August 1973 issue on page 52.

In addition to articles, the following Departments of CIVIL ENGINEERING are indexed: ASCE News, Engineers Notebook, News Briefs, The Readers Write, and The Younger Viewpoint.

Items indexed from Vol. 99 (1973) of the Journals are identified by months. The number of Journals published by a Division in 1973 can be obtained from the number after the last Division abbreviation, i.e., SM12: Dec 1973 identifies the twelfth issue of the Journal of the Soil Mechanics and Foundations Division. The complete list of paper numbers and Journals for 1973 is as follows:

Month	Paper numbers	CO	EM	HY	IR	PO	PP	SA	SM	ST	SU	TE	UP	WW
Jan	9459-9515			1			1		1	1				
Feb	9516-9579		1	2				1	2	2		1		1
March	9580-9634			3	1				3	3			1	
April	9635-9687		2	4			2	2	4	4				
May	9688-9757			5		1			5	5		2		2
June	9758-9821		3	6	2			3	6	6				
July	9822-9890	1		7			3		7	7				
Aug.	9891-9960		4	8				4	8	8		3		3
Sept.	9961-10034			9	3				9	9	1		2	
Oct.	10035-10108		5	10			4	5	10	10				
Nov	10109-10179			11		2			11	11		4		4
Dec	10180-10249		6	12	4			6	12	12				

This annual index has been composed using magnetic tapes of all 1973 entries. To make future issues more useful, interested persons should submit their suggestions for further improvement to:

Information Services
ASCE
345 East 47th Street
New York, New York 10017.

COMBINED SUBJECT INDEX

Abrasion
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168

Absorption
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250
  TR:138:467

Abstracts
Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
  TR:138:407

Abutments
Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
  TR:138:491
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
  TR:138:489
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303
  TR:138:494
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
  TR:138:490
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
  TR:138:492
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
  TR:138:493

Acceleration (Physics)
Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
Dynamic Response of Structures to Combined Effects of Ground Shock and Air Blast, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, Preprint No.1989, Apr 73
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589

Acceleration Tolerance
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
  TR:138:567

Accelerometers
Earthquake Ground Motion, State-of-Art Report I, George W. Housner, TB:73:Ib-6-159
A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323

Accessibility
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
  TR:138:154
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
  TR:138:483

Access Roads
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95
Houston Airport's Low Cost People Mover, Hal K. Puckett and James C. Williamson, Preprint No.2047, July 73
Research Needs for Airport Terminal Planning by the Research Committee of the Air Transport Division, Richard Neufville, Chmn., TE4:Nov 73:863:10153
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
  Dsc: Dean O. Chadwick, CE:Nov 73:38
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73:Mar 73:107

Accuracy
Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
  TR:138:501
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
  TR:138:572
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034

Acidification
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087

Acoustic Detectors
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649

Acoustic Measuring Instruments
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649

Activated Carbon
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430
  TR:138:546

Activated Sludge
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
  TR:138:122
Metal Toxicity to Sewage Organisms, Calvin P.C. Poon and Kiran L. Bhayani, SA2:Apr 71:161:8020

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
TR:138:513
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
TR:138:448
Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3: June 73:283:9797

Activated Sludge Process
Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
TR:138:74
Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6: Dec 73:773:10220
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135: 9679
Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

Adaptive Systems
On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245
TR:138:480

Additives
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
TR:138:149

Adjustment
Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
TR:138:501
Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017

Administration
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509

Admixtures
Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72: 327:8827
TR:138:235
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757

Adsorption
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
TR:138:327
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
TR:138:156
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72: 1021:9430
TR:138:546

Advection
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946
TR:138:294

Aeration
Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883: 8601
TR:138:135
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
TR:138:304
Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
TR:138:387
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004
Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3: June 73:283:9797
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73: 315

Aerial Photography
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71: 321:8545
TR:138:149
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72: 219:9322
TR:138:470
Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T Bartlett, SU1:Sept 73:121:10028
Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
TR:137:946
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
TR:138:228
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79: 9976
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
TR:138:92

Aerial Surveys
Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
TR:138:340
Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
TR:137:946
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79: 9976
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
TR:138:77
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72: 167:9361
TR:138:595

Aerodynamic Forces
Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904

Aerodynamics
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1: Feb 73:53:9518

Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
  TR:138:448
Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
  TR:138:50
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Research Review -- North and South America, State-of-Art Report 3, W. A. Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743
Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72:1573:9416
  TR:138:543

Aeronautics
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743
Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Mill, HY7:July 73:1009:9847

Aero-Space Transport
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512
  TR:137:977
Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Africa
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375

Aggregates
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
  TR:138:224
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247
Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51
  TR:138:86

Aging Tests (Materials)
Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006
Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645

Agricultural Engineering
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
  TR:138:486

Agricultural Products
Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772
  TR:138:157

Agricultural Wastes
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
  TR:138:520
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

Agriculture
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
The Prairie Plan, Frank L. Kudrna, Preprint No.1890, Jan 73
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3:Mar 72:503:8769
  TR:138:192
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2:June 72:275:8964
  TR:138:344
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783
Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72:215:8955
  TR:138:318
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
  TR:138:390

Airborne Equipment
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63:10030

Air Bubbles
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323

Air Conditioning
Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
  Dsc: Donald H. Komito, CE:July 72:52
  TR:138:158
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389

Air Cooling
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
  TR:138:92

Aircraft
Analysis of an 80-Foot Aircraft Shelter for Construction Stresses, J. P. Balsara and R. E. Walker, Preprint No.2019, Apr 73
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
  TR:138:561
Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590

Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339: 9743
The 747 Fatigue and Fail Safe Testing, Max M. Spencer, Preprint No.1992, Apr 73

Aircraft Industry
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55

Aircraft Landing
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19

Aircraft Landing Areas
Dynamic Programming Runway Configuration Schemes, Jason C. Yu and David R. Gibson, Preprint No.2034, July 73
Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71: 681:8543
TR:138:6

Air Entrainment
Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249

Air Pollution
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72: 823:9319
TR:138:449
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
Dsc: Raphael G. Kazmann, CE:Dec 73:22
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
TR:138:404
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
TR:138:406
Impact on Industries of Air Pollution Control Legislation -- A Panel Discussion, David M. Anderson, Preprint No.2109, Oct 73
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
An Overview of Highway Research and Development, Flory J. Tamanini, Preprint No.1988, Apr 73
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2: Apr 72:299:8833
TR:138:321
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14: 73:127
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE4:Aug 73:461: 9936
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735

Air Pollution Control
Research Needs in Environmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14: 73:127
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE4:Aug 73:461: 9936

Airports
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Computer-Aided Design of Airport System Plans, Everett S. Joline, Preprint No.2058, July 73
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154
Dynamic Programming Runway Configuration Schemes, Jason C. Yu and David R. Gibson, Preprint No.2034, July 73
Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95
Houston Airport's Low Cost People Mover, Hal K. Puckett and James C. Williamson, Preprint No.2047, July 73
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
TR:138:480
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721
TR:138:65
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63
New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
TR:138:179
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951
Planning: Integrated Grant Administration Program, Roland M. Lewis, Preprint No.2052, July 73
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504

Research Needs for Airport Terminal Planning by the Research Committee of the Air Transport Division, Richard Neufville, Chmn., TE4:Nov 73:863:10153
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
Dsc: Dean D. Chadwick, CE:Nov 73:38
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
TR:138:566
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743
Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193
Trends in Offshore Airports, Richard D. Harza, TE4:Nov 72:985:9343
TR:138:497
Use of Simulation in Airport Planning and Design, Dana E. Low, Preprint No.2038, July 73
Why Regional Airports, Jack D. Downey, ASC73:Mar 73:153

Airport Towers
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19

Air Temperature
Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209

Air Traffic
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
TR:138:179

Air Transportation
Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141
TR:138:428
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Consolidation for Urban Goods Movements: Air Cargo on the Ground as a Case Study, Richard de Neufville and Nigel H.M. Wilson, Preprint No.2061, July 73
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154
Estimation of General Aviation Air Traffic, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, Preprint No.2041, July 73
Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141
General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
TR:138:480
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
TR:138:561
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Research Needs for Airport Terminal Planning by the Research Committee of the Air Transport Division, Richard Neufville, Chmn., TE4:Nov 73:863:10153
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
TR:138:566
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73:Mar 73:107
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE4:Aug 73:461:9936
Trends in Offshore Airports, Richard D. Harza, TE4:Nov 72:985:9343
TR:138:497
Use of Simulation in Airport Planning and Design, Dana E. Low, Preprint No.2038, July 73
Why Regional Airports, Jack D. Downey, ASC73:Mar 73:153

Air Water Interactions
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323
Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879
TR:138:281

Airy Function
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
TR:138:484
Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
TR:138:146

Alabama
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177

Alaska
Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
TR:138:349
Design and Construction of the Sitka Harbor Bridge, William L. Gute, Preprint No.1957, Apr 73
Engineering the Trans-Alaska Pipeline, CE:Sept 72:79
TR:138:415
First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73:245:9665
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11
The Trans-Alaska Pipeline Story, E. L. Patton, TE1:Feb 73:139:9573

Algae
Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
TR:138:193
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5:Oct 73:639:10043
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
TR:138:91

Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
TR:138:231
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607: 10048

Algal Control
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607: 10048

Algorithms
Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
TR:138:88
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
TR:138:173
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
TR:138:545
General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732
TR:138:150
Identification of Random Systems and Applications, T. T. Soong, Preprint No.2001, Apr 73
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
TR:138:572
On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245
TR:138:480
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
TR:138:75
Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332
Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113

Alignment
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
TR:138:130
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541

Allowable Stress
Elastic Analysis and Design, Theme Report, Edwin H. Gaylord, TB:73:II-14-153

Alloys
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623

Alluvial Channels
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
TR:138:2
Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869
TR:137:871

Alluvial Deposits
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912
TR:138:296

Alluvial Streams
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
TR:138:300

Alteration of Flow
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212

Aluminum
Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913
TR:138:261
Guide for the Design of Aluminum Transmission Towers, by the Task Committee on Lightweight Alloys of the Committee on Metals of the Structural Division, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
TR:138:596
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8048
TR:138:5

Aluminum Alloys
Guide for the Design of Aluminum Transmission Towers, by the Task Committee on Lightweight Alloys of the Committee on Metals of the Structural Division, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
TR:138:596
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623

Ammonia
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901

Amoeba
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98

Amplitude
Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72: 787:8890
TR:138:273
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
TR:138:509

Anaerobic Conditions
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
TR:138:448

Anaerobic Digestion
Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
TR:138:74
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
TR:138:513
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Anaerobic Processes
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
TR:138:513

Analogs
Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489

Analysis
Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10:Oct 73:783:10097
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340
Analysis of an Inhomogeneous Elastic Half-Space, W. David Carrier, III and John T. Christian, TN: SM3:Mar 73:299:9632
Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354

Analytical Photogrammetry
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79:9976

Analytical Techniques
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
TR:138:77

Anchorages
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
TR:138:521
The Art of Pipeline Anchoring, Brian C. Webb, Preprint No.2037, July 73
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Anchored Bulkheads
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568

Anchors (Structures)
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221

Angle Iron
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
TR:138:547

Angle of Repose
Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327

Animal Behavior
Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
TR:138:53

Anisotropy
Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73:1283:10207
Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
TR:138:374
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72:1325:9417
TR:138:575
Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784
TR:138:174
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225

Annuli
Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

Antecedent Precipitation
Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73:1235:9940
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
TR:138:270

Antennas
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242

Application Methods
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
Implementation, Elmer K. Timby, TB:73:C-DM-225

Apprenticeship
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
TR:138:232

Approximation
Modeling, Analysis and Updating of Uncertainties, Wilson H. Tang and Alfredo H.-S. Ang, Preprint No.2016, Apr 73

Aquatic Plants
Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, Preprint No.1870, Jan 73
Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
TR:138:341
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
TR:138:390

Aqueducts
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
TR:138:462
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
TR:138:465

Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, Preprint No.2026, Apr 73
Santa Ana Valley Pipeline as a Structure, Malcolm N. Stephens and James U. McDaniel, Preprint No.1946, Apr 73
The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72: 303:8893
TR:138:195

Aquifer Characteristics
Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567

Aquifers
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
TR:138:104
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
TR:138:588
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489
Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567
Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73: 323:9687
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
TR:138:344
The Subsurface Environment: Private Property or Public Domain, William R. Walker and William E. Cox, Preprint No.2102, Oct 73
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73: 1573:9997

Archaeology
Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087

Arches
Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
TR:138:176
Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735: 9913
Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762
TR:138:153
Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72: 1161:8922
TR:138:280
Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71: 1397:8417
TR:138:11
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520

Architects
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
Dsc: James T. Durning, CE:June 73:22

Architecture
Architectural Concerns are People Concerns, Frank L. Codella, Preprint No.2066, Oct 73
Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
"Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
TR:138:365
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Social Psychological Factors, Density, in Tall Buildings, Roy C. Herrenkohl, Preprint No.2066, Oct 73
Structural Art and Robert Maillart, David P. Billington, Preprint No.2108, Oct 73
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
TR:138:54
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Unileverhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-450
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29

Arctic Engineering
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970

Arctic Regions
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970

Arizona
Pine Valley Creek Bridge -- Use of Cantilever Construction, Richard Heinen, Preprint No.1981, Apr 73
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB: Aug 73:427

Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
Valley Center, Welton Becket and Associates, TB: 73:C-P-318
Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749: 8564

Armoring (Streambed)
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
TR:138:220

Artesian Wells
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
TR:138:344

Artificial Recharge
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409

Arts
Structural Art and Robert Maillart, David P. Billington, Preprint No.2108, Oct 73

ASCE (Activities)
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563: 9287
TR:138:599
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508

ASCE (Aims and Activities)
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Let The Spoken For Be Heard, CE:Sept 73:118
The Making of a "Pro" -- A Faculty Viewpoint, Dan H. Pletta, Preprint No.2063, Oct 73
The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Milton Alpern, Preprint No.2073, Oct 73
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45
TR:138:174

ASCE (Awards & Prizes)
Cabin John Bridge, Donald B. Myer, Preprint No.1873, Jan 73
Hydraulicians are Human Too, Hunter Rouse, HY5: May 72:875:8877
TR:138:257
Seed Wins Terzaghi Award, CE:Mar 73:59
Seen At The San Francisco Meetin... Karl Terzaghi Award Presented to Harry Bolton Seed, CE:June 73:77
Volpe Receives Washington Award, CE:Mar 73:60
'73 Boase Award To Douglas McHenry, CE:Feb 73: 71

ASCE (Board of Direction)
Changed ASCE Membership Requirements Proposed, CE:July 72:68
TR:138:343

ASCE (Civil Engineering)
A Professor Talks About Civil Engineering Education, CE:Aug 72:65
TR:138:385

ASCE (Code of Ethics)
The Aftermath of Article Three, William H. Wisely, CE:Jan 72:37
TR:138:1
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
TR:138:315
Draft Guide to Turnkey Construction Contracts, CE: Oct 72:52
TR:138:444

ASCE (Committees)
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1: Jan 72:131:8658
TR:138:119
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
TR:138:433
Changed ASCE Membership Requirements Proposed, CE:July 72:68
TR:138:343
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
TR:138:9
Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
TR:138:461

ASCE (Conferences)
Awards Given At California AMF Cconference, CE: 73
Seen At The San Francisco Meetin... Karl Terzaghi Award Presented to Harry Bolton Seed, CE:June 73:77

ASCE (Education)
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
Continuing Education in Mid-Career: The Graduate Public Works Program at Pittsburgh, William D. Brinckloe, Preprint No.2054, July 73
Federal Funds Available to Sections for Minority Programs, Steve Tuttle, CE:Feb 73:66
Freeman Grant To Lehigh Professor, CE:Sept 73:113
Iraqi Wins Smith Fellowship For '73, CE:Sept 73:113
Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
TR:138:461
A Professor Talks About Civil Engineering Education, CE:Aug 72:65
TR:138:385
Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76
TR:138:161
University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49
TR:138:20

ASCE (Employment Conditions)
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
TR:138:500
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, Preprint No.1980, Apr 73

Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
Guideline: Employer--Engineer Relationship, Committee on Employment Conditions of the Professional Practice Division, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
TR:138:583

ASCE (Ethics)
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291
TR:138:602

ASCE (Executive Director)
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
TR:138:315
Executive Director, Eugene Zwoyer, CE:Oct 72:49
TR:138:437
A Report from the Executive Director on Membership Dues, Eugene Zwoyer, CE:Dec 72:29
Dsc: Al Rivera, CE:Oct 73:31
TR:138:516

ASCE (Executive Secretary)
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
TR:138:67
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45
TR:138:174

ASCE (Finance)
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
Executive Director, Eugene Zwoyer, CE:Oct 72:49
TR:138:437
A Report from the Executive Director on Membership Dues, Eugene Zwoyer, CE:Dec 72:29
Dsc: Al Rivera, CE:Oct 73:31
TR:138:516

ASCE (History)
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72:
TR:138:137
Cabin John Bridge, Donald B. Myer, Preprint No.1873, Jan 73
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53
Dsc: Daniel J. Mordell, CE:Mar 73:48
TR:138:496

ASCE (Honorary Members)
Emil Praeger, ASCE Honorary Member, Dies, CE:Dec 73:81
Gibb Gilchrist Dead, CE:Mar 73:98
Six Join Ranks Of ASCE Honorary Members, CE:Oct 73:89

ASCE (Insurance)
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820
TR:138:250

ASCE (Joint Activities)
ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93

ASCE (Local Sections)
California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52
TR:138:25
Fry Honored By Publication, CE:May 73:61
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

ASCE (Members)
Armstrong Joins URS, CE:May 73:60
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith C. Crandall, PP3:July 73:307:9882
ASCE Member Tests Pipeline, CE:Nov 73:85
CE People: Roads Come To Remote Areas Of Lesotho Thanks To Young CE, CE:Nov 73:87
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Clarence Eckel Dies, CE:Feb 73:71
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Executive Director, Eugene Zwoyer, CE:Oct 72:49
TR:138:437
Former Kentucky Engineering Dean Dies In Florida, CE:Sept 73:117
Fry Honored By Publication, CE:May 73:61
Hans A. Einstein Dies At 69, CE:Sept 73:116
Hedley Receives Hoover Medal, CE:Dec 73:76
Kimball Dies At 100, CE:June 73:94
Laurits Bjerrum, 54, Dies In London, CE:May 73:90
McHenry, Founder Of RCRC, Dies, CE:Oct 73:98
Noted Traffic Engineer Dies, CE:Nov 73:86
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
TR:138:312
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508
A. W. Knecht, Well-Known Consultant, Dies, CE:Dec 73:81
'73 Boase Award To Douglas McHenry, CE:Feb 73:71

ASCE (Membership)
Changed ASCE Membership Requirements Proposed, CE:July 72:68
TR:138:343
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
TR:138:5
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
TR:138:312

ASCE (National Affairs)
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
Dsc: Dennis C. Cook, CE:Oct 72:63
TR:138:339
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
TR:138:573

ASCE (Officers)
Charles W. Yoder Becomes ASCE President, CE:Oct 73:87
Sangster Is President-Elect; Other Officers For '74 Elected, CE:Sept 73:110
1974 ASCE Officers Installed In New York, CE:Oct 73:88

ASCE (Outstanding Civil Engineering)
Cabin John Bridge, Donald B. Myer, Preprint No.1873, Jan 73
Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53
  Dsc: Daniel J. Mordell, CE:Mar 73:48
  TR:138:496

ASCE (Policy)
ASCE and Graduate Students: Faculty Advisors Opinion, Keith C. Crandall, Preprint No.1972, Apr 73
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
  TR:138:315
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
  Dsc: Dennis C. Cook, CE:Oct 72:63
  TR:138:339
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, Preprint No.1980, Apr 73
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287
  TR:138:599
Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76
  TR:138:161

ASCE (Presidents)
Annual Address, Samuel S. Baxter, PP1:Oct 71:5:8466
  TR:138:26
Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
  TR:138:180
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
  TR:138:607
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
Charles W. Yoder Becomes ASCE President, CE:Oct 73:87
President's Annual Address, John E. Rinne, CE:July 73:87
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291
  TR:138:602
Two Men Nominated For President-Elect William M. Sangster, Official Nominee, CE:July 73:90
Two Men Nominated For President Elect Frank A. Butrico, Nominee By Petition, CE:July 73:90
Views of Candidates for President-Elect: Sangster, CE:July 73:91
Views of Candidates for President-Elect: Butrico, CE: July 73:91
1974 ASCE Officers Installed In New York, CE:Oct 73:88

ASCE (Professional Activities)
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
  TR:138:607
ASCE Legislative Involvement, CE:Oct 73:57
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1: Jan 72:131:8658
  TR:138:119
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685
Developing Younger Member Communication, Norman L. Buehring, Preprint No.1967, Apr 73
Federal Funds Available to Sections for Minority Programs, Steve Tuttle, CE:Feb 73:66
Guideline: Employer--Engineer Relationship, Committee on Employment Conditions of the Professional Practice Division, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
  TR:138:583
The Making of a "Pro" -- or, Motivating Students Towards Professional Thinking. The Practitioner's Viewpoint, Joseph M. DeSalvo, Preprint No.2084, Oct 73
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
  TR:138:9
New Look To ASCE Professional Staff, CE:Oct 73:57

President's Annual Address, John E. Rinne, CE:July 73:87
Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857
  TR:138:335
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

ASCE (Professional Objectives)
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45
  TR:138:174
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32
  Dsc: Paul W. Merkens, CE:Mar 73:89; Rex A. Tynes, CE:Mar 73:89; John P. Piercy, CE:Mar 73:89
  TR:138:522

ASCE (Professional Practice)
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
  TR:138:315
Draft Guide to Turnkey Construction Contracts, CE: Oct 72:52
  TR:138:444
The Making of a "Pro" -- A Faculty Viewpoint, Dan H. Pletta, Preprint No.2063, Oct 73
The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Milton Alpern, Preprint No.2073, Oct 73
Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857
  TR:138:335
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32
  Dsc: Paul W. Merkens, CE:Mar 73:89; Rex A. Tynes, CE:Mar 73:89; John P. Piercy, CE:Mar 73:89
  TR:138:522

ASCE (Public Affairs Forum)
The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73
Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division, James W. McPhillips, Chmn., PP1:Oct 71:167:8480
  TR:138:68

ASCE (Publications)
Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
  TR:138:461

Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508

ASCE (Registration of Engineers)
Changed ASCE Membership Requirements Proposed, CE:July 72:68
TR:138:343
Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857
TR:138:335
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32
Dsc: Paul W. Merkens, CE:Mar 73:89; Rex A. Tynes, CE:Mar 73:89; John P. Piercy, CE:Mar 73:89
TR:138:522

ASCE (Research)
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287
TR:138:599

ASCE (Salaries and Fees)
ASCE President's Inaugural Address, John E. Rinne, CE:Jan 73:74
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
TR:138:500
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, Preprint No.1980, Apr 73
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Retirement Starts Now, Ernest W. Fair, CE:Nov 73:77
Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76

ASCE (Sections)
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36

ASCE (Service to Members)
Are ASCE Dues Too High, Eugene Zwoyer, CE:May 73:43
ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1:Jan 72:131:8658
TR:138:119
Developing Younger Member Communication, Norman L. Buehring, Preprint No.1967, Apr 73

ASCE (Special Activities)
Federal Funds Available to Sections for Minority Programs, Steve Tuttle, CE:Feb 73:66

ASCE (Staff)
ASCE Employee Retires With 53 Years Of Service, CE:Aug 73:70
ASCE Legislative Involvement, CE:Oct 73:57
Cypher Is New CE Ad Manager, CE:Dec 73:80
Hamlin Leaves ASCE Staff For New Job, CE:July 73:95
Jim Norton, CE Advertising Manager, Retires, CE:Nov 73:83
Miss Bays Added To ASCE Staff, CE:Apr 73:92
New Look To ASCE Professional Staff, CE:Oct 73:57

New Staff Members For Technical Activities, CE:Aug 73:69

New Staff Members For Technical Activities, CE:Aug 73:69
Phillips Assumes Meetings Post, CE:Sept 73:110
Whipple Joins Expanding Professional Staff, CE:July 73:75

ASCE (Student Chapters)
ASCE and Graduate Students: Faculty Advisors Opinion, Keith C. Crandall, Preprint No.1972, Apr 73
Four Win ASCE Zone Scholarships, CE:Sept 73:112

The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Milton Alpern, Preprint No.2073, Oct 73
The Making of a "Pro" -- or, Motivating Students Towards Professional Thinking. The Practitioner's Viewpoint, Joseph M. DeSalvo, Preprint No.2084, Oct 73
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508
What Graduate Students Want From ASCE, Harold J. Singer, Preprint No.1971, Apr 73
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

ASCE (Younger Members)
ASCE and Graduate Students: Faculty Advisors Opinion, Keith C. Crandall, Preprint No.1972, Apr 73
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1:Jan 72:131:8658
TR:138:119
Developing Younger Member Communication, Norman L. Buehring, Preprint No.1967, Apr 73
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
A Funny Thing Happened On The Way To The Forum, Michael N. Goodkind, CE:Dec 73:79
Organizational Changes To Make The Associate Member Forum More Viable Force, CE:June 73:100
Dsc: John E. Kemper, CE:Aug 73:22
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
TR:138:166
What Graduate Students Want From ASCE, Harold J. Singer, Preprint No.1971, Apr 73

Ashes
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
TR:138:224
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF:Aug 72:641
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72:927:9443
TR:138:576

Asphalt Emulsions
Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
TR:138:446

Asphalts
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56

Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
TR:138:206

Assessments
Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
TR:138:60

Astronomy
Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139
TR:138:29

Atmospheric Density
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512
TR:137:977

Atmospheric Pressure
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1: July 72:93:9053
TR:138:313
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512
TR:137:977
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

At Rest Pressure
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Attenuation
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534

Attenuators
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
TR:138:99

Attitudes
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062

Auditoriums
Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800

Australia
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Australia Square, Seidler & Associates, TB:73:C-P-418
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Central Square, Fox & Associates, TB:73:C-P-424
City Mutual Building, Seidler & Associates, TB:73: C-P-422
Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399
Exchange Centre, Peddle, Thorp and Walker, TB:73: C-P-406
Dsc, Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34
Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Nauru House, Perrott, Lyon, Timlock & Kesa, TB: 73:C-P-428
Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47
Dsc: David Allen, CE:Sept 72:73; C.V. John Holland, CE:Sept 72:78; Ostap Bender, CE:Oct 72:82
TR:138:272
Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793

Austria
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836
The Viennese Subway System, Max Ellinger, TB:73: C-P-269

Autocorrelation
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72: 1343:9119
TR:138:426

Automatic Control
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
Dsc: Larry Madsen, CE:Aug 72:54
TR:138:226

Automation
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
TR:138:202
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
TR:138:593
Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892
TR:138:187
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
TR:138:212
Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47

Automobiles
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
TR:138:325
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
TR:138:484
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914
TR:138:249

Aviation Safety
General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133

Awards
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
TR:138:121

Axial Compression
Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73: 1283:10207
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107

Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239
TR:138:477
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
TR:138:444
Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409:9850
Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

Axial Flow
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836
TR:138:231

Axial Load
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555

Axisymmetric Flow
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81

Backfills
New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61
TR:138:291
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501

Back Pressure
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73:75:9484

Backwashing
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401
TR:138:498

Backwater
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
TR:138:387

Bacteria
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
TR:138:222
Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73:205:9781
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
TR:138:304
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
TR:138:66

Bacteriology
Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
TR:138:193

Baffle Plates
Hydraulic Model Study for Big Stone Plant -- Unit 1 Cooling Pond Baffle, Fred H. Wend and James F. Ruff, Preprint No.2094, Oct 73

Baffles
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71:2023:8599
TR:138:72
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
TR:138:428
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
TR:138:239

Balancing
Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122
TR:138:379

Baling
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
TR:138:564

Bangladesh
Social Factors in Irrigation Design for Bangladesh, Stephen V. Allison and Kazi F. Jalal, Preprint No.1892, Jan 73

Bank Protection (Waterways)
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
TR:138:300

Banks (Buildings)
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494
Royal Bank Building, M. I. Gilmore, TB:73:C-P-288
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
United California Bank, Ormond Robert Berry, TB:73:C-P-251

Barges
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903
TR:138:335
Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
TR:138:243

Barometers
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
TR:138:313

Barriers
Concrete Safety Barrier Design, Edwin C. Lokken, Preprint No.2062, July 73

Bars
Flow-Induced Vibrations of Trashrack Bars, J. W. Fortey and Robert F. Tiry, CE:May 72:44
TR:138:230
Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809
TR:138:191

Bart
BART in Operation -- New Innovations in Rapid Transit, William A. Bugge, Preprint No.2060, July 73
BART Rail Transit System Begins Operations, CE: Nov 72:63
Dsc: R. Leo Burditt, CE:July 73:22
TR:138:505
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, Preprint No.1926, Apr 73
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Base Courses
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454
TR:138:598

Basins
Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311: 9094
TR:138:351

Batter Piles
Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
Dsc: Murray I. Brill, CE:Sept 72:61; James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE: Dec 72:58
TR:138:284

Bauschinger Effect
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
TR:138:310

Bays (Topographic Features)
Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244

Beaches
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
TR:138:304

Beach Ridges
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
TR:138:558

Beam Columns
Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
TR:138:161
Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72: 1069:8911
TR:138:258
Beam-Column Design, Maxwell G. Lay, TB:73:II-15-382
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441
TR:138:569
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774
Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968
TR:138:286
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6: June 72:1273:8973
TR:138:298
Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12: Dec 72:2647:9407
TR:138:568
Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert M. Lee, ST7:July 73:1371:9835
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463
Lateral-Torsional Buckling of Bulit-Up Beam-Columns, Hiroshi Yoshida and Susumu Nishida, TN: ST7:July 73:1713:9828
Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439: 10232
Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293
Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020
TR:138:326
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683

Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545

Tangent Stiffness in Plane Frames, Cenap Oran, ST6:June 73:973:9810

Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
TR:138:78

Beams (Structural)

Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921
TR:138:275

Beams (Supports)

Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71:2119:8327
TR:138:9

Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73:1283:10207

At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73:72

Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
TR:138:268

Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371

Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
TR:138:125

Behavior of Fiber Glass Reinforced Concrete Beams, Edward G. Nawy, Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353
TR:137:1011

Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800

Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
TR:138:507

Bridge Beam Response to Simulated Traffic, Fred P. Wagner, Jr. and Kishor C. Mehta, Preprint No.1964, Apr 73

Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903

Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437

Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238

Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655

Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774

Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
TR:138:578

Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790

Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902

Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811

Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75
TR:138:114

Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653

Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
TR:138:542

Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157

Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72:713:8775
TR:138:165

Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898

Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407
TR:138:568

Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081

Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353

Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959

Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343

General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103

Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73

Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071

Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666

Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052

Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793
TR:138:199

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786
TR:138:181

Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829

Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094

Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671

Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
TR:138:290

Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
TR:138:158

Orthotropic Bridge Floor Beam Design, Conrad P. Heins, Jr. and Peter G. Perry, Preprint No.1925, Apr 73

Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
TR:138:429

Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594

Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1:Jan 73:183:9501

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
TR:138:310

Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530

Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869

Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329
TR:138:533

Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1: Jan 72:269:8646
TR:138:122

Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51

Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271:9647

Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
TR:138:600

Steel Beam-To-Column Moment Connections, Joseph S. Huang and Wai F. Chen, Preprint No.1920, Apr 73

Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086

Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12: Dec 72:2753:9425
TR:138:581

Suggested Design Guides for Beams with Web Holes, by the Subcommittee on Beams with Web Openings of the Task Committee on Flexural Members of the Structural Division, John E. Bower, Chmn., ST11: Nov 71:2707:8536
TR:138:30

Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564

Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791
TR:138:189

Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687:9428
TR:138:584

Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73: 1205:9788

Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
TR:138:382

Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12: Dec 72:2769:9453
TR:138:587

Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
TR:138:467

Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, TN: EM4: Aug 73:907:9898

Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828

Bearing Capacity

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480

Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
TR:138:521

Axial Capacity, Lymon C. Reese, PES:73:III-201

Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497

Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73: 433:9816

Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
TR:138:561

Bearing Strength of Concrete--Geometric Variations, Sanat K. Niyogi, ST7:July 73:1471:9853

Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71: 1183:8372
TR:138:19

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
TR:138:271

Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154

Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957: 10161

Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
TR:138:141

High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985

Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
TR:138:43

Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171

Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
TR:138:439

Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
TR:138:104

Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
TR:138:481

Bearing Pads

Elastomeric Bridge Bearings, Charles E. Rejcha, CE: May 72:46
Dsc: Knut S. Platou, CE:Jan 73:73
TR:138:233

Bearing Properties

Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069

Bearing Strength

Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187

Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577

Bearing Tests

Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511

Bearing Values

Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
TR:138:175

Beautification

Esthetics in Structural Design, David P. Billington, CE:Oct 73:36

Bedding Materials

Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168

Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72: 787:8890
TR:138:273

Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9: Sept 71:1317:8374
TR:138:18
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
TR:138:240

Bed Forms
Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
TR:138:247
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF: Aug 72:261

Bed Load
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
TR:138:2
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, Preprint No.1918, Jan 73
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
TR:138:241
Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
TR:137:967
Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3: Mar 72:489:8765
TR:138:183
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73: 1551:10033
Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591
TR:138:64
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
TR:138:213
Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521
TR:138:47
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167
Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, Preprint No.2106, Oct 73
Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12: Dec 72:2191:9456
TR:138:597
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
TR:138:412

Bedload Movement
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Einstein Bed-Load Function at High Sediment Rates, Hans Albert Einstein and Farouk M. Abdel-Aal, HY1:Jan 72:137:8652
TR:138:117
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
TR:138:213
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
TR:138:412

Bed Movements
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72: 1057:8952
TR:138:328
Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
TR:138:391

Bed Ripples
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469

Bedrock
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89

Bed Roughness
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
TR:138:220

Beds
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786
TR:137:856

Beds (Geology)
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Beds Under Water
Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
TR:138:476
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293

Behavior
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
TR:138:234

Belled Footings
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708

Belt Highways
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619

Bench Marks
Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017

Bending
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
TR:138:507
Bending of Spectoral Plates with Clamped Edges, John W. Weber, TN: EM2:Apr 73:440:9641
Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071
Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902
TR:138:245
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041
Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020
TR:138:326
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
TR:138:590
Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
TR:138:584
Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129

Bending Moments
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898

Bending Stress
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
TR:138:271
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
TR:138:276

Bends (Hydraulic)
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482

Beneficial Use
State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217

Beneficiation
Beneficiation of Auburn Dam Foundation, Gerald F. Bowles and Glenn S. Tarbox, Preprint No.1878, Jan 73

Benefit Cost Analysis
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064
TR:138:463
Cost Effective Waterway Design and Operation, Bruce Barker and Gerald D. Seinwill, Preprint No.2050, July 73
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974
Least Cost Design of Water Main System in Series, Arun K. Deb, TN: EE3:June 73:405:9764
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269

Benefit-Cost Ratios
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
TR:138:188
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72:823:9319
TR:138:449
Computer-Aided Design of Airport System Plans, Everett S. Joline, Preprint No.2058, July 73
Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
TR:138:292
Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
TR:138:167
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
TR:138:453
Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163
TR:138:308
The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147

Benthic Flora
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
TR:138:482

Berths
Planning Aspects for Variable and Fixed Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73

Biaxial Loads
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575

Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902
TR:138:245

Biaxial Stress
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293

Biaxial Stresses
Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621
Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384
TR:137:1015
Biaxial Stress-Strain Relations for Concrete, Tony C.Y. Liu and Arthur H. Nilson, ST5:May 72:1025:8905
TR:138:247
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455

Bibliographies
"Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
TR:138:365
City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72:
TR:138:266
List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721
TR:138:65
Pipeline Location: Bibliography Supplement, Committee on Pipeline Location of the Pipeline Division, Edward T. Marsh, TE2:May 73:363:9739
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Shock and Impulse Loadings as Related to Seismic Design, James F. Halsey, Preprint No.1962, Apr 73
Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design fot the Structural Division, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
TR:138:214
Tall Buildings Bibliography, Gerard F. Fox, TB:73:C-AC10-39
Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47
Tall Buildings: Preliminary Bibliography, Committee on Bibliography, TB:73:C-AC10-41
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623

Bicycles
The Bicycle Anarchy, James L. Konski, TE4:Nov 73:757:10120
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Bids
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
Bidding With Competitive Strategy Models, Louis R. Shaffer and Terry W. Micheau, CO1:Mar 71:113:8008
TR:137:939
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
TR:138:83
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
TR:138:601
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Draft Guide to Turnkey Construction Contracts, CE:Oct 72:52
TR:138:444
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781
TR:138:257
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291
TR:138:602
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843
Why Bidding Is Not In The Best Interest of The Client, John T. Merrifield, Preprint No.1965, Apr 73

Bifurcations
Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Stability of Inelastic Shells, Lawrence H.N. Lee, Preprint No.2028, Apr 73
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499

Bioassay
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
TR:138:569

Biochemical Oxygen Demand
Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743
TR:138:251
Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596
TR:138:128
Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
TR:138:82
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
Dsc: Floyd A. Skow, CE:Jan 73:84
TR:138:398
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, L. T. Fan and L. E. Erickson, EE3:June 73:315:9798
Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
TR:138:360
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
TR:138:488

Biodegradation
Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
TR:138:341

Bioengineering
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282
TR:138:591
Static Force Analysis of the Human Spine, Ted Belytschko, A. B. Schultz and T. P. Andriacchi, Preprint No.2053, July 73
Streamlines in Two-Dimensional Laminar Branch Flows, David Charles Blest, HY1:Jan 72:171:8656
TR:138:127

Biographies
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72:
TR:138:137
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106

Biological Products
Biological and Chemical Interactions in Reservoirs, Darrell L. King, Preprint No.1884, Jan 73

Biological Surveys
Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046

Biological Treatment
Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
TR:138:261
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
TR:138:360

Biota
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984
TR:138:255

Bituminous Coatings
Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541

Bituminous Concretes
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537

Blast Effects
Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166
Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10148

Blasting
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
TR:138:493
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462
Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
TR:138:380
Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Blast Loads
Analysis of an 80-Foot Aircraft Shelter for Construction Stresses, J. P. Balsara and R. E. Walker, Preprint No.2019, Apr 73
Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399
Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147
TR:138:410
Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
TR:138:603
Dynamic Response of Structures to Combined Effects of Ground Shock and Air Blast, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, Preprint No.1989, Apr 73
External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717
External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661
Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643
Progressive Collapse, Abnormal Loads, and Building Codes, D. E. Allen and W. R. Schriever, STF:73:21
Progressive Collapse Risk, Norman F. Somes, TB:73:Ib-8-727
Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46
Seismic Effects on an Earth Dam from an Explosion, Lyman W. Heller, Preprint No.1950, Apr 73

Blast Resistant Structures
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12:Dec 73:2345:10230

Blocks
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71:2023:8599
TR:138:72

Boilers
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319

Bolted Joints
Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
TR:138:454
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
TR:138:542
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055

Bolts
Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725
Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
TR:138:454
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-377

Bonding
Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099

Bonding Strength
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
TR:138:578
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001

Bond Stress
Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3:June 72:581:8970
TR:138:292

Books
Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
  Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
  TR:138:53

Booms (Equipment)
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
  TR:138:324

Border Irrigation
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612

Bored Piles
Axial Capacity, Lymon C. Reese, PES:73:III-201
Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195:8741
  TR:138:197

Boring Machines
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173
  TR:138:379

Borings
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127

Botany
Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77

Bottom Water
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Boundaries
The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
  TR:138:320

Boundaries (Property)
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
  TR:138:211

Boundary Conditions
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003:10160
Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
  TR:138:146
Finite Element Method for Elastic Plastic Plates, Ted Belytschko and Milan Velebit, EM1:Feb 72:227:8724
  TR:138:103
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
  TR:138:508
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664
Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155

Boundary Layer
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836
  TR:138:231
Plane Jet on Sloping Floors Under Finite Submergence, V. Mura Hari, HY9:Sept 73:1449:10027
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
  TR:138:201
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445
  TR:138:579
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Boundary Layer Flow
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2:Feb 73:259:9542
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
  TR:138:320
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Boundary Shear
Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7:July 72:1127:9007
  TR:138:341
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8:Aug 72:1367:9088
  TR:138:401
Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB:Aug 73:43
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
  TR:138:404

Boundary Value Problems
Analysis of Coupled Heat and Moisture Diffusion By Finite Elements, Thomas L. Cost and T. D. Loftin, Preprint No.1954, Apr 73
Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889
  TR:138:317
Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745
  TR:138:156
Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177:8726
  TR:138:115
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
  TR:138:484
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696
  TR:138:68
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
  TR:138:290

New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520
Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664

Box Beams
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72:1007:8872
  TR:138:230

Box Girders
Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7:July 73:1439:9854
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72:1007:8872
  TR:138:230
Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47
  Dsc: David Allen, CE:Sept 72:73; C.V. John Holland, CE:Sept 72:78; Ostap Bender, CE:Oct 72:82
  TR:138:272
Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028
  TR:138:342
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
  TR:138:329

Bracing
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Stability, Theme Report, George Winter, TB:73:II-16-409
Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086

Branches
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205
Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203

Brazil
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57

Breakwaters
Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
  TR:138:219
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
  TR:138:119
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318
  TR:138:512
Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209:8869
  TR:138:265
Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700
Wave Transmission by Overtopping, Ralph H. Cross and Charles K. Sollitt, WW3:Aug 72:295:9137
  TR:138:457

Bricks
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916
  TR:138:271
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143
  TR:137:943

Bridge Approaches
Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740

Bridge Construction
Construction of the Fremont Bridge, R. O. Cunningham, Hacik Erzurumlu and Richard A. Leber, Preprint No.1968, Apr 73
Design and Construction of the Sitka Harbor Bridge, William L. Gute, Preprint No.1957, Apr 73
Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67
  TR:138:151
Pine Valley Creek Bridge Designing for Segmental Construction, Albert P. Bezzone, Preprint No.1944, Apr 73
Pine Valley Creek Bridge -- Use of Cantilever Construction, Richard Heinen, Preprint No.1981, Apr 73

Bridge Decks
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
  TR:138:526
Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
  TR:138:526

Bridge Design
Design and Construction of the Sitka Harbor Bridge, William L. Gute, Preprint No.1957, Apr 73
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
  Dsc: Carl H. Zweben, CE:Nov 72:49
  TR:138:357
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069

Bridge Failure
Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47
  Dsc: David Allen, CE:Sept 72:73; C.V. John Holland, CE:Sept 72:78; Ostap Bender, CE:Oct 72:82
  TR:138:272

Bridges (Arch)

- Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
- Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
- Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
- Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62
- Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72:49
  - TR:138:329

Bridges (Box Girder)

- Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
- Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
  - TR:138:24
- Behavior of a Curved Steel Box Beam Bridge, Robert A. Greig and William L. Armstrong, Preprint No.2017, Apr 73
- Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
  - TR:138:427
- Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
  - TR:138:315
- Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
  - TR:138:526
- Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7:July 73:1439:9854
- Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
  - TR:138:48
- Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1:Feb 73:201:9576
- Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
  - TR:138:210
- Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67
  - TR:138:151
- Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47
  - Dsc: David Allen, CE:Sept 72:73; C.V. John Holland, CE:Sept 72:78; Ostap Bender, CE:Oct 72:82
  - TR:138:272
- Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028
  - TR:138:342
- Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
- Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069

Bridges (Cable-Stayed)

- Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116
  - TR:137:928
- Cable Connections in Stayed Girder Bridges, Walter Podolny, Jr., Preprint No.1933, Apr 73
- Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
  - TR:138:526
- Design and Construction of the Sitka Harbor Bridge, William L. Gute, Preprint No.1957, Apr 73
- Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151
  - TR:138:416
- First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
- Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
  - TR:138:458
- Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122
  - TR:138:379
- Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71:2837:8604
  - TR:138:52
- Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036
  - TR:138:349

Bridges (Concrete)

- An American Engineer in Israel, Irving Kett, CE:June 72:63
  - Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73:52; Elias Zolkov, CE:June 73:24
  - TR:138:295
- Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
- A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
  - Dsc: Joel Rosenblatt, CE:July 73:22
- Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72:49
  - TR:138:329
- Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE:May 72:73
  - Dsc: Felix Kulka, CE:Aug 72:59
  - TR:138:269
- Pine Valley Creek Bridge Designing for Segmental Construction, Albert P. Bezzone, Preprint No.1944, Apr 73
- Pine Valley Creek Bridge -- Use of Cantilever Construction, Richard Heinen, Preprint No.1981, Apr 73
- Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
  - TR:138:256

Bridges (Decking)

- Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
  - Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22
- Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
  - TR:138:205
- A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
  - Dsc: Joel Rosenblatt, CE:July 73:22
- FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
  - TR:138:169
- Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
- Orthotropic Bridge Floor Beam Design, Conrad P. Heins, Jr. and Peter G. Perry, Preprint No.1925, Apr 73

Bridges (Girder)

- Cable Connections in Stayed Girder Bridges, Walter Podolny, Jr., Preprint No.1933, Apr 73
- Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151
  - TR:138:416
- Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
  - TR:138:429
- First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50

Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
TR:138:458
Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
TR:138:210
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
TR:138:221
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
TR:138:439
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73:335:9627
81-ft Model of Prestressed Bridge, CE:Oct 72:83
TR:138:477

Bridges (Highway)
Long Term Observations on Highway Bridges, Charles F. Galambos, Preprint No.1960, Apr 73

Bridges (Movable)
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903
TR:138:335

Bridges (Orthotropic)
Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
TR:138:427
Construction of the Fremont Bridge, R. O. Cunningham, Hacik Erzurumlu and Richard A. Leber, Preprint No.1968, Apr 73
Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
TR:138:205
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
TR:138:458
Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
TR:138:526

Bridges (Piers)
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
TR:138:526
Elastomeric Bridge Bearings, Charles E. Rejcha, CE:May 72:46
Dsc: Knut S. Platou, CE:Jan 73:73
TR:138:233
Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
TR:138:439
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
TR:138:256

Bridges (Railroad)
Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028
TR:138:342

Bridges (Spans)
Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE:May 72:73
Dsc: Felix Kulka, CE:Aug 72:59
TR:138:269
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
TR:138:221

Bridges (Structures)
Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116
TR:137:928
Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
TR:138:24
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Behavior of a Curved Steel Box Beam Bridge, Robert A. Greig and William L. Armstrong, Preprint No.2017, Apr 73
Bridge Beam Response to Simulated Traffic, Fred P. Wagner, Jr. and Kishor C. Mehta, Preprint No.1964, Apr 73
Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
Construction of the Fremont Bridge, R. O. Cunningham, Hacik Erzurumlu and Richard A. Leber, Preprint No.1968, Apr 73
Dead Load Design Of Curved Bridges, Conrad P. Heins, Jr. and E. L. Murphy, Preprint No.1924, Apr 73
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
TR:138:526
Design and Construction of the Sitka Harbor Bridge, William L. Gute, Preprint No.1957, Apr 73
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22
Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151
TR:138:416
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
TR:138:429
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73:331:9872
Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62
Fatigue and Fracture of Bridge Steels, Richard Roberts and George Irwin, Preprint No.1990, Apr 73
Feasibility Study of Mississippi River Crossings -- Interstate Route 410, T. Robert Kealey, Preprint No.2003, Apr 73
Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837:10031
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
TR:138:499
FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
TR:138:169
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
TR:138:458
Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73:1349:9846
Long Term Observations on Highway Bridges, Charles F. Galambos, Preprint No.1960, Apr 73

Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71: 2837:8604
TR:138:52
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
TR:138:48
Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165: 8631
TR:138:70
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
TR:138:210
Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67
TR:138:151
Orthotropic Bridge Floor Beam Design, Conrad P. Heins, Jr. and Peter G. Perry, Preprint No.1925, Apr 73
Pine Valley Creek Bridge -- Use of Cantilever Construction, Richard Heinen, Preprint No.1981, Apr 73
Prefabricated Highways, William Zuk, TE2:May 72: 387:8895
TR:138:204
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028
TR:138:342
Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491: 9326
TR:138:526
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95
TR:138:424
Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
TR:138:393
Seismic Ground Response of Dumbarton Bridge, Rudy J. Dietrich, Preprint No.1998, Apr 73
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
TR:138:439
Some Esthetic Considerations in Steel Design, Thomas C. Kavanagh, Preprint No.2115, Oct 73
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
TR:138:333
Structural Art and Robert Maillart, David P. Billington, Preprint No.2108, Oct 73
Survey of Curved Girder Bridges, Subcommittee on Curved Girders, Roger L. Brockenbrough, Chmn., CE:Feb 73:54
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73: 335:9627
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
TR:138:329
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66
Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143
TR:138:399

Bridges (Suspension)
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
TR:138:526
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127
TR:138:388
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73: 331:9872
Feasibility Study of Mississippi River Crossings -- Interstate Route 410, T. Robert Kealey, Preprint No.2003, Apr 73
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
TR:138:58
Point Pleasant Bridge Collapse Mechanism Analyzed, Daniel Dicker, CE:July 71:61
Dsc: William F. Hoey, CE:Jan 72:62; Gerald K. Gillan, CE:Apr 72:62; John A. Bennett, CE:Apr 72:62; Daniel Dicker, CE:Oct 72:63; Carl H. Gronquist, CE:Jan 73:52
TR:137:472
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, Preprint No.1983, Apr 73
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
TR:138:508

Bridge Towers
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
TR:138:458

Brittle Fractures
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721
What Designers Should Know About Fracture Toughness, Arthur L. Elliott, Preprint No.1928, Apr 73

Brittle Fracturing
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Dsc: James F. Sato, CE:Sept 72:57
TR:138:345

Broad-Crested Weirs
Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427
TR:138:582
Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515
TR:138:42

Bromates
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71: 617:8425
TR:138:49

Bromine
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71: 617:8425
TR:138:49

Bubbles
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
TR:138:179

Buckling

Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71:2119:8327
TR:138:9

Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101

Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
TR:138:557

Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
TR:138:161

Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5:Oct 72:1115:9247
TR:138:471

Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6:Dec 72:1353:9441
TR:138:569

Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649

Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581

Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177:8726
TR:138:115

Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339
TR:138:536

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903

Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
TR:138:451

Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828

Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951
TR:138:266

Buckling of Shells -- General Introduction and Review, Ernest F. Masur, Preprint No.2000, Apr 73

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
TR:138:547

Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682

Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513

Buckling Stress States of Cylindrical Shells, Ihsan Mungan, Preprint No.1994, Apr 73

Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415

Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238

Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73:2097:10072

Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968
TR:138:286

Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500

Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1:Feb 73:85:9548

Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782

Elastic-Plastic Buckling of Anisotropic Plates, Lawrence L. Durocher and Anthony N. Palazotto, Preprint No.1997, Apr 73

Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72:713:8775
TR:138:165

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
TR:138:572

Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407
TR:138:568

Inelastic Buckling of Monosymmetric I-Beams, David A. Nethercot, TN: ST7:July 73:1696:9828

Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063

Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
TR:138:368

Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
TR:138:589

Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793
TR:138:199

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786
TR:138:181

Lateral-Torsional Buckling of Bulit-Up Beam-Columns, Hiroshi Yoshida and Susumu Nishida, TN: ST7:July 73:1713:9828

Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72:1161:8922
TR:138:280

Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439:10232

Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
TR:138:504

Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064

Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
TR:138:290

Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71:1397:8417
TR:138:11

Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501

- Poor Structural Design Brings West Gate Bridge Failure, John J. Kozak and Charles Seim, CE:June 72:47
  - Dsc: David Allen, CE:Sept 72:73; C.V. John Holland, CE:Sept 72:78; Ostap Bender, CE:Oct 72:82
  - TR:138:272
- Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239
  - TR:138:477
- Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630
  - TR:138:67
- Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
- Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72:1499:9450
  - TR:138:602
- Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096
- Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
  - TR:138:369
- Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
  - TR:138:439
- Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
- Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
- Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253
  - TR:137:976
- Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
- Stability of Hyperboloidal Shells, Daniel R. Veronda and Victor I. Weingarten, Preprint No.2112, Oct 73
- Stability of Inelastic Shells, Lawrence H.N. Lee, Preprint No.2028, Apr 73
- Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1:Jan 72:269:8646
  - TR:138:122
- Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
  - TR:138:508
- Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB:73:III-23-517
- Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
- Stability of Unbraced Single-Bay Multistory Frames, Abel Helmy Salem, ST2:Feb 73:223:9552
- Stability, Theme Report, George Winter, TB:73:II-16-409
- Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
- Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545
- Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086
- Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
  - TR:138:444
- Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6:Dec 72:1417:9446
  - TR:138:586
- Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
  - TR:138:329
- Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
  - TR:138:78

Budget Estimates

- Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064
  - TR:138:463

Budgeting

- Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66
  - TR:138:48

Building Codes

- The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE:Aug 72:55
  - Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73:65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
  - TR:138:377
- British Column Design, Allan R. Gent, TB:73:II-16-545
- Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
- Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139
- Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
  - TR:138:365
- Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483
- Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42
  - Dsc: John A. Owen, CE:Nov 72:56
  - TR:138:360
- Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
- Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87
- Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229

Building Materials

- Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135
- Correlation of Test Results with Theoretical Analysis for Plastic Structures, Timothy J. Fowler, Preprint No.1955, Apr 73
- The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72:
  - TR:138:387
- Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981
- Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73:Ib-9-901
- Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749
- Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2:Apr 73:249:9648
- Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
- Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB:73:Ia-3-537
- Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
- Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603

Buildings

- Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381:9585

Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71: 2459:8434
TR:138:20
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233: 8643
TR:138:109
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
Dsc: James T. Durning, CE:June 73:22
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72: 1069:8911
TR:138:258
The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55
Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73: 65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
TR:138:377
Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800
Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010
TR:138:306
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
TR:138:271
Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585
Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423
Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
TR:138:102
Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399
TR:138:15
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
TR:138:416
Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB: 73:III-21-149
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
Esthetics in Structural Design, David P. Billington, CE Oct 73:36
Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
TR:138:517
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49
Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231
Gust Factors and Alongwind Pressure Correlations, Emil Simiu, ST4:Apr 73:773:9686
Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868
Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9: Sept 72:1943:9207
TR:138:465
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71: 2837:8604
TR:138:52
New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46
Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
TR:138:97
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72: 1769:9148
TR:138:409
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363: 9328
TR:138:531
Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46
Repairing Buildings Damaged in Earthquake, CE:Oct 73:62
Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
TR:138:207
The Shifting Paradigm, George B. Begg, Preprint No.1984, Apr 73
Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88
Some Esthetic Considerations in Steel Design, Thomas C. Kavanagh, Preprint No.2115, Oct 73
Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123
TR:138:384
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72: 327:8675
TR:138:139
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642

Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
Systems Approach to Building, James R. Cagley, CE: Apr 73:59
  Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
  TR:138:54
Tall Buildings in Antiquity, Douglas D. Feaver, TB: 73:Ia-1-251
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791
  TR:138:189
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN: ST1:Jan 73:229:9464
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72: 1365:9445
  TR:138:579
Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27

Buildings (Apartment)
Boston Collapse, William A. Litle, STF:73:99
Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310
Economic Modelling, Alan D. Russell, Preprint No.2066, Oct 73
Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9: Sept 72:1943:9207
  TR:138:465
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Model Investigations of Shear Wall Structures, Alexander Coull and A. W. Irwin, ST6:June 72: 1223:8936
  TR:138:284

Buildings (Codes)
Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55
  Dsc: Christopher G. Tyson, CE:Sept 72:65
  TR:138:190
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
  TR:138:433
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
  Dsc: Dennis C. Cook, CE:Oct 72:63
  TR:138:339
Codes and Model Testing, John Springfield, TB:73: Ib-7-431
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113
Concrete Design Standards in Asia, State-of-Art Report 7, Hon Kwan Cheng, TB:73:III-20-117
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64
Earthquake Codes -- Poison or Panacea?, Robert C. Cassano, Preprint No.1947, Apr 73
Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399
  TR:138:15
Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327
Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
  TR:138:540
Earthquakes -- We Live With Them But Don't Love Them, Arthur L. Elliott, Preprint No.1927, Apr 73
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Fatigue Reliability and Design, James T.P. Yao, Preprint No.2023, Apr 73
Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719
Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677
Flood Proofing Regulations for Building Codes, Armando C. Lardieri, Preprint No.1915, Jan 73
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
German Code Requirements, Gert Konig, TB:73:Ib-10-1027
Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692
Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733
Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171
Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74
  Dsc: Michael A. Jordan, CE:Aug 73:24
Limit States Design, Theme Report, Franco Levi, TB: 73:III-26-843
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73: III-27-981
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103

Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB:73:Ib-8-523
Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Progressive Collapse, Abnormal Loads, and Building Codes, D. E. Allen and W. R. Schriever, STF:73:21
Reinforced Concrete Columns Today, Ignacio Martin, Preprint No.1919, Apr 73
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
Repairing Buildings Damaged in Earthquake, CE:Oct 73:62
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701
Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143
Shear Strength of Reinforced Concrete Members, James G. MacGregor, Preprint No.1995, Apr 73
Site Response Procedures for Major Buildings, Neville C. Donovan, Preprint No.2027, Apr 73
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73:III-23-571
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541:9864
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
TR:138:142

Buildings (Commercial)
Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589
TR:138:112

Buildings (Hospitals)
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282
TR:138:591
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
TR:138:593
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
TR:138:593
Repair of Earthquake Damage at Holy Cross Hospital, Los Angeles (Mission Hills), California, Robert W. Spracklen, Preprint No.1941, Apr 73
A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
TR:138:592

Buildings (Hotels)
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Buildings (Office)
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Australia Square, Seidler & Associates, TB:73:C-P-418
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Central Square, Fox & Associates, TB:73:C-P-424
Centre Square, Vincent G. Kling and Partners, TB:73:C-P-390
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Clinton Square, Welton Becket and Associates, TB:73:C-P-338
Commerce Court, M. I. Gilmore, TB:73:C-P-294
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
TR:138:307
Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4:Apr 73:621:9643
Exchange Centre, Peddle, Thorp and Walker, TB:73:C-P-406
Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368
Finland House, Kahn & Jacobs, TB:73:C-P-350
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P 494
Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142
TR:138:397
John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
One Shell Square, Skidmore, Owings & Merrill, TB:73:C-P-490
Pedestrian System Planning for High Rise Buildings, John J. Fruin, Preprint No.2055, July 73
Penn Center, Vincent G. Kling and Partners, TB:73:C-P-380
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358

The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Social Psychological Factors, Density, in Tall Buildings, Roy C. Herrenkohl, Preprint No.2066, Oct 73
Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245:10159
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Standard Oil of N.J., Harrison & Abramovitz, TB:73:C-P-431
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434
Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Thyssenhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-448
Tour Apogee, Skidmore, Owings & Merrill, TB:73:C-P-486
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Unileverhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-450
Union Bank, Welton Becket and Associates, TB:73:C-P-326
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
Valley Center, Welton Becket and Associates, TB:73:C-P-318
The Wainwright Building, John D. Randall, TB:73:C-P-352
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306

Buildings (Residential)
Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
  TR:138:102
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360

Bulkheads
Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Bulking
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679

Buoyancy
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
  TR:138:563
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992

Buoys
Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179
Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115
  TR:138:17

Bureau of Reclamation
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117

Buried Pipes
Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117

Buried Structures
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72:2329:9325
  TR:138:521

Buses (Vehicles)
Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141
  TR:138:428
Bus Transit, Lester A. Hoel, CE:Mar 73:79
Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4:Nov 72:807:9320
  TR:138:456
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
  TR:138:434
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
  TR:138:499
Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569
Houston Airport's Low Cost People Mover, Hal K. Puckett and James C. Williamson, Preprint No.2047, July 73
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
  TR:138:79
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
On Two Means of Alleviating Rush-Hour Crowding, Charles Libove, Preprint No.2033, July 73
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73:59
  Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE:Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73:32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34

Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
TR:138:325
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452

Bus Lines
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
TR:138:434

Butterfly Valves
Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141
Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993

Cables
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
TR:138:142

Cables (Ropes)
Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116
TR:137:928
Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431
TR:138:27
Cable Connections in Stayed Girder Bridges, Walter Podolny, Jr., Preprint No.1933, Apr 73
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
Dsc: Joseph R. Passonneau, CE:Sept 72:61
TR:138:319
Contact Stresses in Twisted Wire Cables, James W. Phillips and George H. Costello, EM2:Apr 73:331:9676
Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3:Mar 73:321:9601
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72:1817:9127
TR:138:388
Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6:June 72:1273:8973
TR:138:298
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73:331:9872
First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
TR:138:458
Incremental Response of 3-D Cable Networks, John W. Leonard, TN: EM3:June 73:621:9765
Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
TR:138:185
Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
TR:138:58
Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71:2837:8604
TR:138:52
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
TR:138:170
Nonlinear Dynamics of Curved Cable Elements, John W. Leonard, TN: EM3:June 73:616:9765
Tall Buildings Elastically Coupled, Ramiro Sofronie, TB:73:Ia-3-637

Caissons
Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833

Calcium Carbonates
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
TR:138:222

Calculations
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70
TR:138:106
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73
TR:138:110

Calculators
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
TR:138:129
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70
TR:138:106
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
TR:138:483

Calculus of Variations
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206

California
Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Beneficiation of Auburn Dam Foundation, Gerald F. Bowles and Glenn S. Tarbox, Preprint No.1878, Jan 73
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Bunker Hill-Los Angeles Parking and People Mover Program, Martin A. Wallen, Preprint No.2090, Oct 73
California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52
TR:138:25
California County Considers Esthetics, Victor Sauer, CE:Nov 73:70
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
TR:138:307
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
TR:138:142
Design of a Hydroelectric Powerplant in an Area of High Seismicity, Marian Pona and A. B. Arnold, Preprint No.1959, Apr 73
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, Preprint No.2009, Apr 73

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105

Earthquake Repairs, Kaiser Hospital, Panorama City, California, Donald R. Strand, Preprint No.1996, Apr 73

Ecological Impacts of Water Projects in California, Robert M. Hagan and Edwin B. Roberts, IR1:Mar 72:25:8780
TR:138:198

Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93

Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
Dsc: Raphael G. Kazmann, CE:Dec 73:22

Gas Line Response to Earthquakes, John D. McNorgan, Preprint No.1975, Apr 73

Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149

Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

A Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, Preprint No.1977, Apr 73

Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133

Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490

A New Look at California Dams and Earthquakes, Clifford J. Cortright, Preprint No.2011, Apr 73

Optimization of Multiple Reservoir System, William J. Trott and William W-G Yeh, HY10:Oct 73:1865:10065

Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
TR:138:450

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
TR:138:549

Pine Valley Creek Bridge Designing for Segmental Construction, Albert P. Bezzone, Preprint No.1944, Apr 73

Practical Traffic Considerations in Earthquake Country, Haig Ayanian, Preprint No.1942, Apr 73

Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585

Repair of Earthquake Damage at Holy Cross Hospital, Los Angeles (Mission Hills), California, Robert W. Spracklen, Preprint No.1941, Apr 73

Santa Ana Valley Pipeline as a Structure, Malcolm N. Stephens and James U. McDaniel, Preprint No.1946, Apr 73

Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
TR:138:425

Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140

Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, Preprint No.1999, Apr 73

Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991

Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
TR:138:276

Unique Flood Control Problems and Solutions, Fred R. Cline and Edward Koehm, Preprint No.1945, Apr 73

United California Bank, Ormond Robert Berry, TB:73:C-P-251

Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
TR:138:450

Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204

Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76

Canada

CIL House, M. I. Gilmore, TB:73:C-P-284

Commerce Court, M. I. Gilmore, TB:73:C-P-294

Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72:465:9120
TR:138:377

Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
TR:138:493

Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051

How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049
TR:138:287

Le Chateau Champlain, T. A. Monti, TB:73:C-P-278

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
TR:138:409

Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269

Red River Floodway and Related Flood Control Works, Thomas E. Weber, Preprint No.1966, Apr 73

Royal Bank Building, M. I. Gilmore, TB:73:C-P-288

Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, Preprint No.1983, Apr 73

Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74

Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301

Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592

Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Canals

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
TR:138:475

Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53
Dsc: Daniel J. Mordell, CE:Mar 73:48
TR:138:496

Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
TR:138:440

Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106

Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
TR:138:252

Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, Preprint No.2039, July 73

Cantilever Beams

Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470

Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4:Aug 73:919:9898

Cantilevers

Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
TR:138:451

Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709

Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1: Jan 72:269:8646
TR:138:122

Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089

Capacity

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
TR:138:441

Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72: 465:9120
TR:138:377

Capillary Flow

Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186
TR:138:463

Capital Costs

Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
TR:138:261

Carbon

Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5: Oct 73:639:10043

Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607: 10048

Carbon Compounds

Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087

Careers

University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49
TR:138:20

Cargo

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Cargo Aircraft

Consolidation for Urban Goods Movements: Air Cargo on the Ground as a Case Study, Richard de Neufville and Nigel H.M. Wilson, Preprint No.2061, July 73

Cargo Transportation

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juasekoon, WW3:Aug 72:393:9131
TR:138:441

Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570

Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72: 333:9126
TR:138:426

Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
TR:138:494

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Seismic Design of LASH Terminal, Robert T. Lawson and Henry J. Degenkolb, Preprint No.2007, Apr 73

Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047
TR:138:554

Cast-In-Place Structures

Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191

Catalysts

Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710
TR:138:181

Cationic Asphalt Emulsions

Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
TR:138:446

Cavitation

Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73: 417:9605

Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB: Aug 73:141

Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993

Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
TR:138:151

Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440
TR:138:32

Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874

Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593
TR:138:69

Cavities

Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790
TR:138:217

In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72: 899:9202
TR:138:464

Cement Grouts

Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908

Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
TR:138:446

Cements

Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757

Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
TR:138:124

Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
TR:138:43

Central City

Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619

Channel Improvements

The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60

Channels

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
TR:138:241
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
TR:138:252
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506

Channels (Waterways)

Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4: Nov 73:415:10137
Cost Effective Waterway Design and Operation, Bruce Barker and Gerald D. Seinwill, Preprint No.2050, July 73
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11: Nov 72:1969:9330
TR:138:537
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72: 1057:8952
TR:138:328
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
TR:138:391
Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691: 9216
TR:138:497
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
TR:138:503
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Channel Stabilization

Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886
TR:138:263
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867
TR:138:227
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
TR:138:391

Characteristics

Photographs of Tall Buildings, State-of-Art Report 2, N. Abaya and E. Ozer, TB:73:C-AC14-113
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
TR:138:159
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., Preprint No.1952, Apr 73
Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93

Charging

Industrial Waste Charges, James A. Seagraves, EE6: Dec 73:873:10203
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253: 9795

Charts

Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167: 9500

Chemical Cleaning

Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759
TR:138:90

Chemical Composition

Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10: Oct 71:1431:8451
TR:138:65

Chemical Grouts

Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
TR:138:503

Chemical Reactions

Biological and Chemical Interactions in Reservoirs, Darrell L. King, Preprint No.1884, Jan 73
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
TR:138:503

Chemical Removal (Sewage Treatment)

Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
TR:138:399
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
TR:138:327
Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78

Chemical Resistance

Chemical Resistant Resurfacing Mortars for Industrial Floors and Ramps, Dallas Grenley and Lou Kuhlmann, Preprint No.2092, Oct 73

Chemical Resistant Coatings

Chemical Resistant Resurfacing Mortars for Industrial Floors and Ramps, Dallas Grenley and Lou Kuhlmann, Preprint No.2092, Oct 73

Chemical Stabilization

Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72: 327:8827
TR:138:235

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209

Chicago

Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
TR:138:509
Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498
The Prairie Plan, Frank L. Kudrna, Preprint No.1890, Jan 73
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
TR:138:170
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306

Chile

Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255

Chimneys

Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN: PO2:Nov 73:441:10115
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500
Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72:1:8634
TR:138:85

Chlorides

Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489:9944

Chlorination

Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
TR:138:91
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703
TR:138:172
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
TR:138:231
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
TR:138:304
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
TR:138:66
Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Chlorine

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703
TR:138:172
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
TR:138:122

Chute Spillways

Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
TR:138:596

Circulation

The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

Cities

Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591

City Planning

Prefabricated Highways, William Zuk, TE2:May 72:387:8895
TR:138:204

Civil Defense

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Civil Engineering

Annual Address, Samuel S. Baxter, PP1:Oct 71:5:8466
TR:138:26
Architectural Concerns are People Concerns, Frank L. Codella, Preprint No.2066, Oct 73
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
Dsc: James T. Durning, CE:June 73:22
Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
TR:138:35
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72:
TR:138:137
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282
TR:138:591

The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
TR:138:277
Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
TR:138:299
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
TR:138:96
Continuing Education in Mid-Career: The Graduate Public Works Program at Pittsburgh, William D. Brinckloe, Preprint No.2054, July 73
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
TR:138:474
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
TR:138:544
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
TR:138:418
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889
The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825
TR:138:264
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1:Jan 72:33:8657
TR:138:107
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287
TR:138:599
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
TR:138:573
Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283
TR:138:591
Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
TR:138:39
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70
TR:138:106
Project Planning, John M. Shields, SU1:July 72:61:9041
TR:138:202
Public Policy: Who Speaks for the Engineer?, Augustine J. Fredrich, Preprint No.2051, July 73
Reflection on My Profession by a Black Civil Engineer, Benito A. Sinclair, Preprint No.1901, Jan 73
The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
TR:138:592
State of the Society, Oscar S. Bray, PP4:Oct 72:481:9291
TR:138:602
Structural Art and Robert Maillart, David P. Billington, Preprint No.2108, Oct 73
Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71:65:8457
TR:138:10
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
TR:138:407

Civil Engineers

Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
TR:138:239
Annual Address, Samuel S. Baxter, PP1:Oct 71:5:8466
TR:138:26
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
Dsc: James T. Durning, CE:June 73:22
Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
TR:138:35
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
Dsc: Sandra Johnson, CE:July 73:25; Della Laura, CE:July 73:25; Amos Roos, CE:July 73:26; Dorothy M.N. McClellan, CE:July 73:26; Della Laura, CE:Oct 73:32
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72:
TR:138:137
Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541
TR:138:108
California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52
TR:138:25
The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
TR:138:191
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
The Civil Engineer In Research, Johannes J. DeVries, CE:Jan 73:92
The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
TR:138:277
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
TR:138:563
Continuing Education in Mid-Career: The Graduate Public Works Program at Pittsburgh, William D. Brinckloe, Preprint No.2054, July 73
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
TR:138:39
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
TR:138:544
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
TR:138:418
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486

Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
  Dsc: Charles W. Griffin, Jr., CE:May 72:40; Daniel B. Halton, CE:May 72:40; Ray R. Davis, CE:July 72:77; Michael A. Murphy, CE:Aug 72:64; Ernest T. Ianni, CE:Sept 72:61
  TR:138:147
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825
  TR:138:264
Esthetics -- A Necessary Part of the Engineer's Education, Frederick M. Law, Preprint No.2075, Oct 73
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
  Dsc: R. F. Lathlean, CE:June 73:26
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
  TR:138:227
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
  TR:138:573
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283
  TR:138:591
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
  TR:138:166
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
  TR:138:312
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Public Policy: Who Speaks for the Engineer?, Augustine J. Fredrich, Preprint No.2051, July 73
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517
Reflection on My Profession by a Black Civil Engineer, Benito A. Sinclair, Preprint No.1901, Jan 73
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
  TR:138:592
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
  TR:138:121
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
  Dsc: William G.G. Blakney, CE:July 73:22
1971 ASCE Salary Survey, the Committee on Employment Conditions of the Department of Professional Activities, Charles J. Stevens, Chmn., PP3:July 72:393:9025
  TR:138:347
20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Cladding
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653

Claims (Contracts)
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
  TR:138:83

Clay (Material)
Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195:8741
  TR:138:197
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
  TR:138:588

Clays
Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72:327:8827
  TR:138:235
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
  TR:138:472
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042
Coefficient of Secondary Compression, Cholamreza Mesri, SM1:Jan 73:123:9515
Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189
Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505
Embankments on Soft Ground, Laurits Bjerrum, PES:73:II-1
Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49
Extension Tests on Soft Clays Without Membranes, T. S. Ramanatha Iyer, TN: SM6:June 73:486:9815
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
  TR:138:538
Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844
Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Secondary Consolidation and Strength of a Clay, Chih-Kang Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, Preprint No.1979, Apr 73
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625
  TR:138:113
Stress Propagation in a Frequency Dependent Material, Raymond N. Yong, Jean C. Dutertre and Raymond J. Krizek, Preprint No.2020, Apr 73
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
  TR:138:114

Clay Soils

Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995
TR:138:383
Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Cleaning

Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759
TR:138:90

Cleavage

An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77

Climatology

Central California Evapotranspiration Frequencies, W. O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
TR:138:251
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279

Cloud Modification

Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Cloud Seeding

Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72: 585:9413
TR:138:562
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
TR:138:291
Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988
Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983
The South Dakota Weather Modification Program, Merlin C. Williams, Preprint No.1883, Jan 73
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Coagulation

Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73: 411:9945
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
TR:138:122
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946

Coal

Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263

Coal Mines

Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41

Coal Mine Wastes

Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69

Coal Mining

Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263

Coastal Engineering

Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534
Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
TR:138:574
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
TR:138:119
Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73: 691:10046
Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342
TR:138:529
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
TR:138:558
Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939
Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
TR:138:60
Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699
Maximum Breaker Height, J. Richard Weggel, WW4: Nov 72:529:9384
TR:138:586
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
TR:138:172
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73: 257:9753
Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365
TR:138:552
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68
Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
TR:138:243
Oil Booms in Tidal Currents, Ralph H. Cross and David P. Hoult, WW1:Feb 72:25:8719
TR:138:192
Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311: 9094
TR:138:351
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879
TR:138:281
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4: Nov 71:735:8547
TR:138:101
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
TR:138:155
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4: Nov 72:443:9318
TR:138:512
Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754
Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209: 8869
TR:138:265

Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
TR:138:371
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
TR:138:137
Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
TR:138:417
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, Preprint No.2018, Apr 73

Coastal Structures
Maximum Breaker Height, J. Richard Weggel, WW4:Nov 72:529:9384
TR:138:586

Coastal Surveillance
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63:10030

Codes
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings and J. L. Smith, Preprint No.2014, Apr 73
Basis for Tubular Joint Design Codes, Peter W. Marshall and A. Anthony Toprac, Preprint No.2008, Apr 73
Fatigue Reliability and Design, James T.P. Yao, Preprint No.2023, Apr 73

Coefficient of Variation
Concrete Quality, Neil Jackson, TB:73:Ib-9-896

Coefficients
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
TR:138:312
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
TR:138:172
Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11:Nov 72:2015:9370
TR:138:556
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
TR:138:156
Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
TR:138:201
Solution of Flow Under Sluice Gate, Yong K. Chung, EM1:Feb 72:121:8744
TR:138:152
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72:1187:9061
TR:138:386

Cofferdams
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, Preprint No.1926, Apr 73
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES:73:III-251
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
TR:138:440
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
TR:138:368
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
TR:138:594

Cohesion
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Cohesionless Soils
Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8:Aug 73:617:9919
Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
TR:138:561
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793:10057
Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72:381:8844
TR:138:264

Cohesive Soils
Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129:9377
TR:138:553
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN:HY3:Mar 73:555:9609

Cold Forgings
Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059
Dsc, Cold Formed Steel Structures, Donovan S. Wolford, CE:Nov 73:28

Cold Rolling
How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848

Cold Weather Construction
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
TR:138:507
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. M. Malhotra, Preprint No.1956, Apr 73
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Cold Weather Operations
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald York, CE:Aug 73:56

Coliform Bacteria
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
TR:138:231
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
TR:138:66

Collapse
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77
Boston Collapse, William A. Litle, STF:73:99
Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187
Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
TR:138:102
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
TR:138:221
Point Pleasant Bridge Collapse Mechanism Analyzed, Daniel Dicker, CE:July 71:61
Dsc: William F. Hoey, CE:Jan 72:62; Gerald K. Gillan, CE:Apr 72:62; John A. Bennett, CE:Apr 72:62; Daniel Dicker, CE:Oct 72:63; Carl H. Gronquist, CE:Jan 73:52
TR:137:472
Progressive Collapse, Abnormal Loads, and Building Codes, D. E. Allen and W. R. Schriever, STF:73:21
Progressive Collapse Risk, Norman F. Somes, TB:73:Ib-8-727
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73:III-23-571

Collars
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765

Collection
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916

Collective Bargaining
American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
TR:138:500
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
TR:138:563
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429:10090

Collisions
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
TR:138:99

Colorado
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center and Thomas J. Rhone, Preprint No.1899, Jan 73
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
TR:138:255

Colorado River
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146

Columns
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB:73:III-23-517
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499

Columns (Supports)
Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621
Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72:1069:8911
TR:138:258
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555
Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608
Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384
TR:137:1015
British Column Design, Allan R. Gent, TB:73:II-16-545
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
TR:138:547
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513

Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
TR:138:509
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515
Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415
Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238
Composite Cores and Columns, Hannskárl Bandel, TB:73:Ia-3-632
Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968
TR:138:286
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-European Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37
Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875:9978
Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765
Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464
Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537
Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407
TR:138:568
Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72:1529:9429
TR:138:549
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
TR:138:368
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902
TR:138:245
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439:10232
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064
Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7:July 73:1702:9828
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
TR:138:21
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
TR:138:429
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906
Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654
Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723
Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223
Reinforced Concrete Columns Today, Ignacio Martin, Preprint No.1919, Apr 73
Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
TR:138:310
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
TR:138:237
Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729:8544
TR:138:35
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
Steel Beam-To-Column Moment Connections, Joseph S. Huang and Wai F. Chen, Preprint No.1920, Apr 73
Steel Column Buckling Under Thermal Gradients, Charles G. Culver, ST8:Aug 72:1853:9150
TR:138:414
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53:9471
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153:8637
TR:138:93
Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97
Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409:9850
Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616
Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975
Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229

Combined Sewers

Combined Sewer Overflows, Richard Field, CE:Feb 73:57

A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
TR:138:506

Comfort
Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142
TR:138:397
Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701

Commercial Transportation
Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
TR:138:87

Commodity Management
Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
TR:138:87

Communication
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659
TR:138:131
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
TR:138:307
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95

Community Development
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72:823:9319
TR:138:449
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029

Community Relations
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389
Goals for Dallas Program, Erik Jonsson, CE:Sept 72:58
Dsc: Mark Jordan, CE:May 73:45
TR:138:394
Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Compacting
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1:May 73:217:9741
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
TR:138:503

Compaction
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939:10170
Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
TR:138:382
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72:361:8840
TR:138:253
Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10:Oct 71:1431:8451
TR:138:65
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
TR:138:429

Compaction Tests
Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
TR:138:175
A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78
Dsc: Norbert O. Schmidt, CE:Nov 72:56
TR:138:165

Comparison
Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696
TR:138:68

Compatibility
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
TR:138:459

Compatibility Methods
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
TR:138:508

Compensation
Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393:9746

Competitive Bidding
ASCE Signs Consent Decree on Competitive Bidding, Eugene Zwoyer, CE:July 72:37
TR:138:315
Dsc, Bidding Procedure, Frank E. Rutt, CE:Nov 73:20
Dsc, Political Contributions, John E. Murray, CE:Nov 73:20

Composite Beams
Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594

Composite Materials
Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491

Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3: June 72:581:8970
TR:138:292
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, Preprint No.2091, Oct 73
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
TR:138:508
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71: 1451:8415
TR:138:3
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72: 849:9132
TR:138:389

Composite Structures
Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921
TR:138:275
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Composite Cores and Columns, Hannskarl Bandel, TB:73:Ia-3-632
Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73: 655:9653
Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, Preprint No.2091, Oct 73
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
TR:138:130
Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
TR:138:290
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
TR:138:221
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615
Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72: 1499:9450
TR:138:602
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Strength Factors for Composite Members, D. E. Allen, TB:73:III-26-940
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
TR:138:479
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
TR:138:329
Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975

Compressed Air
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
TR:138:248

Compressibility
Coefficient of Secondary Compression, Cholamreza Mesri, SM1:Jan 73:123:9515
Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189

Compression
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73: III-23-537
Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401
TR:138:33
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545

Compression Ratio
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Compression Tests
A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61
Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

Compressive Strength
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290

Compressive Stress
Tensile and Compressive Cyclic Stresses in Rock -- Abstract, Bezalel C. Haimson, C. M. Kim and T. M. Tharp, RM14:73:748

Computation
Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
TR:138:501
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
TR:137:852
Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670
TR:138:134
Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643
Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281
TR:138:527
Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968
TR:138:286
Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11: Nov 72:1969:9330
TR:138:537
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782

Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Hermann, HY6:June 73:959:9787
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
TR:138:185
Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6: Dec 72:1471:9433
TR:138:560
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
TR:138:572
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
TR:138:530
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
TR:138:515
Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139
TR:138:29
Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141: 8738
TR:138:144
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72: 1087:9260
TR:138:495
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72: 167:9361
TR:138:595
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Computer Applications

Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017
Computer-Aided Design of Airport System Plans, Everett S. Joline, Preprint No.2058, July 73
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, Preprint No.2040, July 73
Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39: 10015
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31
Dsc: Morton B. Lipetz, CE:June 73:22
The Computer in Structural Stability Analysis, Bo O. Almroth and James H. Starnes, Jr., Preprint No.1936, Apr 73
Computer Simulation of Distorted Structural Frameworks, Henry N. Christiansen, Preprint No.2080, Oct 73
Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614
Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849
Fourier Analysis of Simulated and Recorded EMG, Gyan C. Agarwal and Gerald L. Gottlieb, Preprint No.2035, July 73
Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, Preprint No.2077, Oct 73
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2: Dec 71:149:8568
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Half Frame Method, Bernardo J. Deschapelles, TB: 73:II-16-591
Hybrid Computer Analysis of Seam Extraction -- Abstract, M. P. Hardy, S. L. Crouch and Charles Fairhurst, RM14:73:749
Interactive Graphics: Portability and Adaptability, Robert H. Ewald, Larry J. Feeser and Robert L. Schiffman, Preprint No.2082, Oct 73
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122
TR:138:379
Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1: Feb 73:201:9576
New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118
On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245
TR:138:480
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
TR:138:513
Pattern Discovery in Urban Environment, Tung Au and Andrew K.C. Wong, Preprint No.1993, Apr 73
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70
TR:138:106
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
TR:138:483
Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Don L. Chery, Jr., HY9:Sept 73:1337:9990
Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922
Simulation of Impoundment Turbidity Structure, Darrell G. Fontane, Preprint No.2083, Oct 73
The State of the Art of Computer Graphics -- Applications in Structural Engineering, Task Committee on Computer Graphics of the Committee on Electronic Computation, Structural Division, Robert D. Logcher, Chmn., Preprint No.2024, Apr 73

Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
TR:138:508

Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549

Tall Buildings Bibliography, Gerard F. Fox, TB:73:C-AC10-39

Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47

Tall Buildings: Preliminary Bibliography, Committee on Bibliography, TB:73:C-AC10-41

Technology Transfer Requirements in Engineering, Charles A. Babendreier, Preprint No.2096, Oct 73

Use of Digital Radar Data in Operational Hydrology, Michael D. Hudlow, Preprint No.1911, Jan 73

Computerized Simulation

Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763
TR:138:208

Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
TR:138:154

Computer Models

Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544

Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216

Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
TR:138:288

Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429
TR:138:57

Computer Programming

Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323

Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
TR:138:299

Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435
TR:138:564

Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614

Engineering Requirements for Computer Software, Robert J. Melosh, Preprint No.2022, Apr 73

Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202

Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937

Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131

On the Alternatives and Considerations for Acquiring Computer-Aided Analysis Tools, Kenneth Medearis, Preprint No.2022, Apr 73

On the Implementation of Computer Software, John M. McCormick and Melvin L. Baron, Preprint No.2022, Apr 73

On the Sources of Computer Software, Nicholas Perrone, Preprint No.2022, Apr 73

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
TR:138:343

Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
TR:138:483

Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
TR:138:288

Specifications for Computer Software, Robert K. Waddick and Charles F. Beck, Preprint No.2022, Apr 73

The State of the Art of Computer Graphics -- Applications in Structural Engineering, Task Committee on Computer Graphics of the Committee on Electronic Computation, Structural Division, Robert D. Logcher, Chmn., Preprint No.2024, Apr 73

Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738
TR:138:144

Computer Programs

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
TR:138:315

Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282

Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
TR:138:340

Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
TR:138:173

Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
TR:138:207

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916
TR:138:271

Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547

Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626

Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72:219:9322
TR:138:470

Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216

Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
Dsc: Donald H. Komito, CE:July 72:52
TR:138:158

Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668
TR:138:132

Engineering Requirements for Computer Software, Robert J. Melosh, Preprint No.2022, Apr 73

Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
TR:138:372

National Weather Service River Forecasting System, Eric A. Anderson and John C. Monro, Preprint No.1879, Jan 73

Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE:Jan 72:71
TR:138:58

On the Alternatives and Considerations for Acquiring Computer-Aided Analysis Tools, Kenneth Medearis, Preprint No.2022, Apr 73

On the Implementation of Computer Software, John M. McCormick and Melvin L. Baron, Preprint No.2022, Apr 73

On The Nonlinear Theory of Shells, Gerald A. Wempner, Preprint No.2095, Oct 73

On the Sources of Computer Software, Nicholas Perrone, Preprint No.2022, Apr 73

Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722

Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
TR:138:133
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
TR:138:314
Specifications for Computer Software, Robert K. Waddick and Charles F. Beck, Preprint No.2022, Apr 73
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72:327:8675
TR:138:139
Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698
TR:138:25
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069
Technology Transfer Requirements in Engineering, Charles A. Babendreier, Preprint No.2096, Oct 73

Computers

Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
TR:138:88
Analysis of Cable-Stayed Girder Bridges, Man-Chung Tang, ST5:May 71:1481:8116
TR:137:928
Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431
TR:138:27
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
TR:138:202
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
TR:138:540
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73:2097:10072
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916
TR:138:271
Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31
Dsc: Morton B. Lipetz, CE:June 73:22
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159
Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
TR:138:299
Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60
Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45
Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117
TR:138:369
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
TR:138:218
Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
TR:138:540
Econometric Model to Aid in Urban Planning Decisions, John F. Brotchie, Ron Sharpe and A. Ray Toakley, UP1:Mar 73:25:9587
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
TR:138:545
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782
Engineering Requirements for Computer Software, Robert J. Melosh, Preprint No.2022, Apr 73
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773
Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73:2217:10194
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
TR:137:1040
Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
TR:138:167
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81
Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6:Dec 72:1471:9433
TR:138:560
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
TR:138:546
Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
On the Alternatives and Considerations for Acquiring Computer-Aided Analysis Tools, Kenneth Medearis, Preprint No.2022, Apr 73
On the Implementation of Computer Software, John M. McCormick and Melvin L. Baron, Preprint No.2022, Apr 73
On the Sources of Computer Software, Nicholas Perrone, Preprint No.2022, Apr 73
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972

Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235:9756
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
  TR:138:343
Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
  TR:138:450
Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72:1697:9154
  TR:138:423
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
  TR:138:223
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
  TR:138:483
Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758
  TR:138:184
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
  TR:138:282
Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377
Specifications for Computer Software, Robert K. Waddick and Charles F. Beck, Preprint No.2022, Apr 73
The State of the Art of Computer Graphics -- Applications in Structural Engineering, Task Committee on Computer Graphics of the Committee on Electronic Computation, Structural Division, Robert D. Logcher, Chmn., Preprint No.2024, Apr 73
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
  TR:138:508
Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934
  TR:138:242
Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738
  TR:138:144
A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
  TR:138:506
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
  TR:138:87
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2:May 72:285:8914
  TR:138:24[illegible]

Computer Systems Hardware
Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
  TR:138:299

Computer Systems Programs
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
  TR:138:129
On the Alternatives and Considerations for Acquiring Computer-Aided Analysis Tools, Kenneth Medearis, Preprint No.2022, Apr 73
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
  TR:138:105

Concentrated Loads
Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE2:May 73:255:9721
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
  TR:138:559

Concentration
Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067
Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
  TR:138:519

Concrete
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
  TR:138:405
Australia Square, Seidler & Associates, TB:73:C-P-418
Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187
Bearing Strength of Concrete--Geometric Variations, Sanat K. Niyogi, ST7:July 73:1471:9853
Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853:9917
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Biaxial Stress-Strain Relations for Concrete, Tony C.Y. Liu and Arthur H. Nilson, ST5:May 72:1025:8905
  TR:138:247
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
  TR:138:537
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515
Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Concrete Quality, Neil Jackson, TB:73:Ib-9-896
Concrete Safety Barrier Design, Edwin C. Lokken, Preprint No.2062, July 73
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757
Creep of Concrete at Elevated Temperatures, Zdenek P. Bazant and Spencer T. Wu, Preprint No.2110, Oct 73
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63

Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
TR:138:294
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893
Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645
Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1: May 73:217:9741
Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
TR:138:406
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Griffith Fracture Criterion and Concrete, Surendra P. Shah and Fred J. McGarry, EM6:Dec 71:1663: 8597
TR:138:45
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73
Illustrations of Safety Evaluation and Risk-Based Design, Bruce R. Ellingwood and Alfredo H.-S. Ang, Preprint No.2023, Apr 73
Inelastic Tests Of Repaired Concrete Connections, William H. Townsend, Duane L.N. Lee and Robert D. Hanson, Preprint No.2010, Apr 73
Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Lavon Dam Modification, Garland E. Young, Preprint No.1923, Apr 73
Limit Design -- For The Office and The Laboratory, Richard W. Furlong, Preprint No.1987, Apr 73
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Multi-Story Reinforced Concrete Frame Models, Asadul H. Chowdhury, Richard N. White and Norman R. Scott, Preprint No.2002, Apr 73
Nauru House, Perrott, Lyon, Timlock & Kesa, TB: 73:C-P-428
Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
TR:138:429
Prediction of Load-Induced Dimensional Changes in Concrete, L. J. Parrott and J. M. Illston, Preprint No.1935, Apr 73
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
TR:138:598
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807
Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897
Reinforced Concrete Columns Today, Ignacio Martin, Preprint No.1919, Apr 73
Research on an Extremely Rapid Setting High Strength Concrete, John E. Johnson, Donald O. Baehr and Robert J. Wenk, Preprint No.2097, Oct 73
Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Shear Strength of Reinforced Concrete Members, James G. MacGregor, Preprint No.1995, Apr 73
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827
Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913: 8253
TR:137:976
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. M. Malhotra, Preprint No.1956, Apr 73
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
Supported Decks for Commercial and Residential Development, Jacob Feld, Preprint No.2064, Oct 73
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
TR:138:43
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Concrete (Blocks)

Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187
New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46

Concrete (Lightweight)

Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB: 73:III-21-247
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
TR:138:81

Concrete (Post-Tensioned)

Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
Dsc: Joel Rosenblatt, CE:July 73:22
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565
Prefabricated Highways, William Zuk, TE2:May 72: 387:8895
TR:138:204
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Dsc: Felix Kulka, CE:Oct 72:76
TR:138:275

Concrete (Precast)

At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73: 72

Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
TR:138:474

Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290

Dsc, Design Of Connections For Precast Prestressed Concrete, George D. Nasser, CE:Sept 73:38

Dsc, Design Of Connections For Precast Prestressed Concrete, George D. Nasser, CE:Sept 73:38

Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52
TR:138:186

High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894
TR:138:240

Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171

Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE: May 72:73
Dsc: Felix Kulka, CE:Aug 72:59
TR:138:269

Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
TR:138:507

Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88

Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
TR:138:77

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706

Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591

Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596

Prefabricated Highways, William Zuk, TE2:May 72: 387:8895
TR:138:204

Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415

Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870

Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73: III-23-571

Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499

Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623

Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

81-ft Model of Prestressed Bridge, CE:Oct 72:83
TR:138:477

Concrete (Prestressed)

At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73: 72

Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
TR:138:219

Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006

Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73: 81

Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645

Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
TR:138:526

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64

Esthetics in Water Towers, John P. Klus, CE:Sept 73: 84

High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985

Lavon Dam Modification, Garland E. Young, Preprint No.1923, Apr 73

Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72: 49
TR:138:329

Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
TR:138:507

Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
TR:138:77

Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777

The Outfall Sewer Story, Edward B. Fitzpatrick, Jr., Preprint No.2107, Oct 73

Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906

Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Dsc: Felix Kulka, CE:Oct 72:76
TR:138:275

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501

Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415

The Shear Strength of Reinforced Concrete Members, by the Task Committee on Masonry and Reinforced Concrete of the Structural Division, James G. MacGregor, Chmn., ST6:June 73:1091: 9791

Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999: 10096

Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73: 335:9627

Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687: 9428
TR:138:584

Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129

Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
TR:138:81

81-ft Model of Prestressed Bridge, CE:Oct 72:83
TR:138:477

Concrete (Reinforced)

An American Engineer in Israel, Irving Kett, CE: June 72:63
Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73: 52; Elias Zolkov, CE:June 73:24
TR:138:295

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340

Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375

Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187

Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709

Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555

Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608
Boston Collapse, William A. Litle, STF:73:99
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
  TR:138:474
Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139
Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921
  TR:138:275
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61
  TR:138:334
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB:73:III-21-265
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113
Concrete Design Standards in Asia, State-of-Art Report 7, Hon Kwan Cheng, TB:73:III-20-117
Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655
Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
  TR:138:578
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
  TR:138:452
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB:73:III-21-149
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72:47:8717
  TR:138:96
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
  TR:138:406
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert M. Lee, ST7:July 73:1371:9835
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934
Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
German Code Requirements, Gert Konig, TB:73:Ib-10-1027
Illustrations of Safety Evaluation and Risk-Based Design, Bruce R. Ellingwood and Alfredo H.-S. Ang, Preprint No.2023, Apr 73
Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
  TR:138:101
Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
  TR:138:365
Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395
Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633:9074
  TR:138:376
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
  Dsc: Floyd A. Skow, CE:Jan 73:84
  TR:138:398
Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125
Limit Design -- For The Office and The Laboratory, Richard W. Furlong, Preprint No.1987, Apr 73
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949
Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843
List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631
  TR:138:70
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
  TR:138:565
Multi-Story Reinforced Concrete Frame Models, Asadul H. Chowdhury, Richard N. White and Norman R. Scott, Preprint No.2002, Apr 73
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
  TR:138:440
New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712
New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333

Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473

Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860

Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845
  TR:138:218

Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892
  TR:138:187

One Shell Plaza, Skidmore, Owings & Merrill, TB: 73:C-P-488

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
  Dsc: Albert C. Strauss, CE:May 73:57
  TR:138:541

Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259

Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723

Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223

Reinforced Concrete Columns Today, Ignacio Martin, Preprint No.1919, Apr 73

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
  TR:138:310

Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415

Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45

Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249
  TR:138:483

Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695

Serviceability, Emil Grasser, TB:73:III-22-465

Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329
  TR:138:533

The Shear Strength of Reinforced Concrete Members, by the Task Committee on Masonry and Reinforced Concrete of the Structural Division, James G. MacGregor, Chmn., ST6:June 73:1091: 9791

Shear Strength of Reinforced Concrete Members, James G. MacGregor, Preprint No.1995, Apr 73

Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203

Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488

Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, Preprint No.1976, Apr 73

Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729: 8544
  TR:138:35

South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57

Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB: 73:III-23-517

Stability, Summary Report, Boris Bresler, TB:73:III-23-631

Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639

Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655

Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455

Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
  TR:138:566

Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
  TR:138:253

Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069

Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87

Supported Decks for Commercial and Residential Development, Jacob Feld, Preprint No.2064, Oct 73

Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564

Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793

Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793

Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
  TR:138:43

Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409: 9850

Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867

Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616

Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73: 335:9627

Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687: 9428
  TR:138:584

Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
  TR:138:467

Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467

U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27

Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643

Concrete Piles

Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
  TR:138:219

Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834

High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985

Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941

Settlements of Pile Groups, Bengt B. Broms, PES:73: III-181

Concrete Pipes

Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE: Feb 73:45

Concrete Properties

Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
  TR:138:598

Research on an Extremely Rapid Setting High Strength Concrete, John E. Johnson, Donald O. Baehr and Robert J. Wenk, Preprint No.2097, Oct 73
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. M. Malhotra, Preprint No.1956, Apr 73

Concrete Slabs
Design of a Two-Way Post-Tensioned Waffle Slab, Jerry L. McDonald, CE:May 73:64
Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323
High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894 TR:138:240
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654
Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53:9471
Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73:C-P-282

Concrete Structures
Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670 TR:138:134
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61 TR:138:334
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79
Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60
Supported Decks for Commercial and Residential Development, Jacob Feld, Preprint No.2064, Oct 73
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64

Concrete Technology
Dsc, Design Of Connections For Precast Prestressed Concrete, George D. Nasser, CE:Sept 73:38

Concrete Tests
Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749

Condensers (Liquefiers)
Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235:9756

Conduits
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327 TR:138:462
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104 TR:138:323
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680

Conferences
Dsc, Proceedings Of The ASCE Specialty Conference On Safety And Reliability Of Metal Structures, Phillip M. Schmidt, CE:June 73:32

Confined Water
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001

Confining Pressure
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134 TR:138:431

Conflict
Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136 TR:138:394

Conformal Mapping
Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71:1573:8528 TR:138:84
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846 TR:138:239
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737 TR:138:138
Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Connecticut
Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787 TR:138:212

Connections (Joints)
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371
Cable Connections in Stayed Girder Bridges, Walter Podolny, Jr., Preprint No.1933, Apr 73
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290
Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790
Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323
Factor of Safety of Connections, R. Delesques, TB:73:II-19-890
Inelastic Tests Of Repaired Concrete Connections, William H. Townsend, Duane L.N. Lee and Robert D. Hanson, Preprint No.2010, Apr 73
Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259
Steel Beam-To-Column Moment Connections, Joseph S. Huang and Wai F. Chen, Preprint No.1920, Apr 73
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Vertical Wall Joints, M. Pommeret, TB:73:III-21-277

Conservation
Competing Values in Water Development -- The Congressional Viewpoint, Daniel A. Dreyfus, Preprint No.1894, Jan 73
Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Engineering the Trans-Alaska Pipeline, CE:Sept 72:79 TR:138:415
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811 TR:138:282
Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71
Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368
TR:138:28
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
TR:138:550

Consolidation
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
TR:138:51
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207
Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
TR:138:374
Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
TR:138:168
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713
Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, Preprint No.1986, Apr 73
Consolidation of Porous Media with Non-Darcy Flow, James D. Westmann and Russell A. Westmann, EM6:Dec 73:1201:10211
Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
TR:138:175
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
TR:138:429
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73
TR:138:110

Consolidation Coefficient
Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
TR:138:51
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Constraints
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986

Constrictions
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841

Construction
Aesthetics of Tall Buildings, William Henderson, TB: 73:Ia-1-256
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
TR:138:502
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
TR:138:405
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB: 73:Ia-4-797
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
The Art of Pipeline Anchoring, Brian C. Webb, Preprint No.2037, July 73
ASCE Seeks Bigger Role in Building Codes, CE:Dec 73:36
Bidding With Competitive Strategy Models, Louis R. Shaffer and Terry W. Micheau, CO1:Mar 71:113: 8008
TR:137:939
Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541
TR:138:108
Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
TR:138:27
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
TR:138:83
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
The Civil Engineer In Construction, Richard H. Clough, CE:July 73:97
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
TR:138:474
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, Preprint No.1926, Apr 73
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
TR:138:601
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135
Construction of Deep Foundations, William F. Swiger, PES:73:III-207
Construction of Keban Dam on the Euphrates River, Turkey, J. Fernandez Zuazo, Preprint No.1900, Jan 73
Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
TR:138:489

Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-Europian Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37

Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72:311:8858
TR:138:107

Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231

Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838

Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837

Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
TR:138:355

Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165

Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, Preprint No.1885, Jan 73

Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74

Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839

Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475

Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845

Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
TR:138:332

Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834

The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26

General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103

Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE:Feb 73:45

Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436

Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497
TR:138:73

High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067

High Rise Construction in France, State-of-Art Report 4B, Jean A. Roret, TB:73:Ia-4-741

Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805

Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85

Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898

Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
TR:138:561

Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867

Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
TR:138:232

Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
TR:138:546

Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477

Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
TR:138:507

Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565

Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
TR:138:453

New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712

Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82

Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201:9188
TR:138:475

Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72:1255:8937
TR:138:288

Planning Aspects for Variable and Fixed Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73

Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
TR:138:255

Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844

Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
TR:138:55

Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656

Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758
TR:138:184

Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830

Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163
TR:138:308

The Quality System as Seen by the Government Engineer-Administrator, Ellis L. Armstrong, Preprint No.1882, Jan 73

Quality System in Construction, Edward A. Abdun-Nur and John E. Rinne, Preprint No.1912, Jan 73

Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
TR:138:380

Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62

Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Red River Floodway and Related Flood Control Works, Thomas E. Weber, Preprint No.1966, Apr 73

Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781
TR:138:257

The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73

The Role of the Engineer in Systems Building, Tung Y. Lin, Preprint No.2012, Apr 73

Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832

Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796
TR:138:283

The Shifting Paradigm, George B. Begg, Preprint No.1984, Apr 73

Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1:July 73:175:9888

South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
 TR:138:567
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
 TR:138:214
Summary Report of Questionnaire on Construction Inspection, by the Task Committee on Inspection of the Construction Division, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
 TR:138:524
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099
Systems Approach to Building, James R. Cagley, CE: Apr 73:59
 Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20
A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
 TR:138:592
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
 TR:138:594
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72: 235:9173
 TR:138:379
Very Large Graving Docks, Jay J. Hassani, Preprint No.1938, Apr 73
Why Bidding Is Not In The Best Interest of The Client, John T. Merrifield, Preprint No.1965, Apr 73
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
 TR:138:89
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
 TR:138:417

Construction Control
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849
Foundation Failure, Jacob Feld, CE:June 73:89
 Dsc: M. D. Morris, CE:Aug 73:20

Construction Costs
Bidding With Competitive Strategy Models, Louis R. Shaffer and Terry W. Micheau, CO1:Mar 71:113: 8008
 TR:137:939
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
 TR:138:580
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388
 TR:138:590
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
 TR:138:442

Construction Equipment
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
 TR:138:585
Crane Safety, Suzy Fisher, CE:Feb 72:61
 Dsc: Lee W. Crandall, CE:June 72:73
 TR:138:93
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Dsc, Driller Pier Foundations, Joseph M. DeSalvo, CE:Mar 73:40
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73: 81:9832
Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796
 TR:138:283
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
 TR:138:89

Construction Industry
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
 TR:138:601
Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
 TR:138:332
Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
 TR:138:523
Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
 TR:138:453
Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
 TR:138:55
Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
 TR:138:89

Construction Management
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
 TR:138:332
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
 TR:138:199
Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758
 TR:138:184
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62
The Shifting Paradigm, George B. Begg, Preprint No.1984, Apr 73
A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
 TR:138:592

Construction Materials
Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
 TR:138:585

Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, Clyde E. Kesler, TB:73:III-25-757

Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
TR:138:355

Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
TR:138:545

Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2: Apr 73:249:9648

Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143
TR:138:399

Construction Methods

Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61
TR:138:334

Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585

Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165
TR:138:438

Construction Planning

Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585

Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763
TR:138:208

Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62

Construction Procedure

At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73: 72

Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541
TR:138:108

Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157

Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858
TR:138:107

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Environmentally Sensitive Construction Procedures, Austin H. Emery, Preprint No.2089, Oct 73

Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62

First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50

Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715

Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781

New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181

New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68

The Outfall Sewer Story, Edward B. Fitzpatrick, Jr., Preprint No.2107, Oct 73

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706

Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82

Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52

Pine Valley Creek Bridge Designing for Segmental Construction, Albert P. Bezzone, Preprint No.1944, Apr 73

Pine Valley Creek Bridge -- Use of Cantilever Construction, Richard Heinen, Preprint No.1981, Apr 73

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
TR:138:515

Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562

Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843

Consultants

Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823

Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066

Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565

Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429: 10090

Consulting Engineers

Client Relations, Chandler P. Young, EPMT:73:63

Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66
TR:138:48

Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59

Summary Report of Questionnaire on Construction Inspection, by the Task Committee on Inspection of the Construction Division, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
TR:138:524

1971 ASCE Salary Survey, the Committee on Employment Conditions of the Department of Professional Activities, Charles J. Stevens, Chmn., PP3:July 72:393:9025
TR:138:347

Consumers

Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
TR:138:44

Consumption Rate

Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941

Consumptive Use (Water)

Central California Evapotranspiration Frequencies, W. O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
TR:138:251

Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279

Contactors

Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823

Contact Pressure

Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
TR:138:125

Containerizing

Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
TR:138:299

Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72: 333:9126
TR:138:426
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
TR:138:494
Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139
TR:138:411

Containers
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
TR:138:494

Containment
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
TR:138:324
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711

Containment Vessels
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
TR:138:494
Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323
Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714
Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
TR:138:101
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Continuing Education
An Educator-Practitioner Interaction Program, Subhash C. Anand, PP2:Apr 73:259:9674

Continuous Beams
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
TR:138:237

Continuum Hypothesis
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271

Continuum Mechanics
Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5: Oct 72:1075:9240
TR:138:453
Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE2:May 73:255:9721
Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
TR:138:372
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
TR:138:459
Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475

Contours
Selection of Maps for Engineering and Planning, by the Task Committee for the Preparation of a Manual on the Selection of Map Types, Scales and Accuracies for Engineering and Planning of the Committee on Cartographic Surveying of the Surveying and Mapping Division, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
TR:138:420

Contract Administration
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781
TR:138:257

Contracting
Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843

Contraction
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003: 10160

Contractors
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
TR:138:601
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Draft Guide to Turnkey Construction Contracts, CE: Oct 72:52
TR:138:444
Environmentally Sensitive Construction Procedures, Austin H. Emery, Preprint No.2089, Oct 73
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26
The Outfall Sewer Story, Edward B. Fitzpatrick, Jr., Preprint No.2107, Oct 73
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781
TR:138:257
The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73

Contracts
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
TR:138:83
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Draft Guide to Turnkey Construction Contracts, CE: Oct 72:52
TR:138:444
Environmentally Sensitive Construction Procedures, Austin H. Emery, Preprint No.2089, Oct 73
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
The Outfall Sewer Story, Edward B. Fitzpatrick, Jr., Preprint No.2107, Oct 73
The Role of Contract and Specifications in Foundations, Max E. Greenberg, Preprint No.2074, Oct 73
The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
TR:138:194

Contract Terms
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
TR:138:199
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781
TR:138:257

Control Structures
Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515
TR:138:42

Control Surveys
Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
TR:138:501
How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049
TR:138:287
Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T Bartlett, SU1:Sept 73:121:10028

Control Systems
Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Convection
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87

Convergence
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054

Convolution Integrals
Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3:Sept 72:405:9213
TR:138:514

Coolants
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173

Cooling
Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

Cooling Systems
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
TR:138:571
Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
TR:137:1024
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
TR:138:92
Environmental Consideration in the Design of Blowdown Discharge Systems, Adnan M. Alsaffar, Preprint No.2065, Oct 73
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydraulic Model Study for Big Stone Plant -- Unit 1 Cooling Pond Baffle, Fred H. Wend and James F. Ruff, Preprint No.2094, Oct 73
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241
TR:138:392
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
TR:138:364
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191

Cooling Towers
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
TR:138:487
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
TR:138:92
Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
TR:138:452
Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989
Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595:9629
Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
TR:138:228
Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235:9756
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
TR:138:364
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
TR:138:431
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70
TR:138:262

Cooling Water
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
TR:138:571
Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
TR:138:124
Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
TR:138:452
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241
TR:138:392
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469

Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191

Coordinates
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79:9976
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
TR:138:92

Cores
Composite Cores and Columns, Hannskarl Bandel, TB:73:Ia-3-632

Correlation
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
TR:138:201

Corrosion
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22
Long Term Observations on Highway Bridges, Charles F. Galambos, Preprint No.1960, Apr 73
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
TR:138:280
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Corrosion Control
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
TR:138:280

Corrosion Inhibitors
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055

Corrosion Prevention
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Corrosion Resistance
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81

Corrugated Metal Pipes
New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61
TR:138:291

Cost Analysis
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72:
TR:138:387
Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393:9746
Nonconvex Structural Optimization Problems, George I.N. Rozvany, TN: EM1:Feb 73:243:9528
Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
TR:138:77
Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594

Cost Control
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
TR:138:154

Cost Effectiveness
Cost-Effeetiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
TR:138:552

Cost Estimates
Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
TR:138:402
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068

Costs
Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141
TR:138:428
Alternatives to the Heating and Evaporation of Groundwater While Still Satisfying the U.S. Energy Appetite, William E. Heronemus, Preprint No.1909, Jan 73
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
TR:138:540
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606
Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Cost Effective Waterway Design and Operation, Bruce Barker and Gerald D. Seinwill, Preprint No.2050, July 73
Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
TR:138:34
Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258
TR:138:495
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
TR:138:44
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Draft Guide to Turnkey Construction Contracts, CE:Oct 72:52
TR:138:444
Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
TR:138:355
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, Preprint No.1898, Jan 73
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877

Esthetics in Water Towers, John P. Klus, CE:Sept 73:84
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
TR:138:292
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
TR:138:232
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
TR:138:478
Management the Lincoln Electric Way, CE:Jan 73:76
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
TR:138:442
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
TR:138:507
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206
TR:138:486
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195
TR:138:447
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
TR:138:179
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
TR:138:534
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041
Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
TR:138:55
Port Structure Costs, Eugene L. Sembler, Preprint No.2013, Apr 73
Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
TR:138:212
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462
Programmable Calculators: A Consultant Reports, D. A. Polychrone and Dieter Franz, CE:Nov 72:44
TR:138:483
Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163
TR:138:308
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076
Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541
Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
TR:138:133
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
Dsc: Richard C. Elstner, CE:Apr 73:81
Structures for Undersea Exploration, Lev Zetlin, I. Paul Lew and Richard L. Tomasetti, Preprint No.1914, Jan 73
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259
TR:138:550

Cost Savings

How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
TR:138:310

Couette Flow

Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73:17:9540

Couplings

Tall Buildings Elastically Coupled, Ramiro Sofronie, TB:73:Ia-3-637

Covariance

Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9:Sept 72:1625:9184
TR:138:459

Cracking

Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72:2663:9423
TR:138:578
Cracking and Control, Neil Jackson, TB:73:III-24-723
Cracking and Crack Control, Karl Kordina, TB:73:III-24-721
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1:Feb 72:17:8695
TR:138:16
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, C. William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
TR:138:530
List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705

Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687:9428
TR:138:584

Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725

Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12:Dec 72:1375:9454
TR:138:598

Cracking (Fracturing)

Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645

Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3:June 72:581:8970
TR:138:292

Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357

Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639

Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
TR:138:363

Cracks

Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
TR:138:406

Craftsmen

Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
TR:138:453

Cranes (Hoists)

Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890

Crane Safety, Suzy Fisher, CE:Feb 72:61
Dsc: Lee W. Crandall, CE:June 72:73
TR:138:93

Creep

Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006

Creep of Concrete at Elevated Temperatures, Zdenek P. Bazant and Spencer T. Wu, Preprint No.2110, Oct 73

Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741

Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831

Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765

Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645

Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625

Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505

Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206

Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9:Sept 73:687:10019

Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393

In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72:899:9202
TR:138:464

Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

Prediction of Load-Induced Dimensional Changes in Concrete, L. J. Parrott and J. M. Illston, Preprint No.1935, Apr 73

Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131

Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923

Settlements of Pile Groups, Bengt B. Broms, PES:73:III-181

Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25

Thickness Effects on Creep, Giorgio Macchi, TB:73:III-25-829

Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775

Creep Properties

Creep of Concrete at Elevated Temperatures, Zdenek P. Bazant and Spencer T. Wu, Preprint No.2110, Oct 73

Creep Rate

Creep of Concrete at Elevated Temperatures, Zdenek P. Bazant and Spencer T. Wu, Preprint No.2110, Oct 73

Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055

Criteria

Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1

Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357

Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
TR:138:365

Critical Path Method

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152

Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61
TR:138:334

Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
TR:138:546

New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118

Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
TR:138:55

Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758
TR:138:184

Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830

Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541

Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47

Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1:July 73:175:9888

Crop Production

Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73:421:10229

Cross Sections
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382

Crushing
Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70
Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
TR:138:298

Culverts
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72:2329:9325
TR:138:521
Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117
TR:138:369
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
TR:138:440
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Currents (Water)
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995

Curtain Walls
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153

Curvature
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
TR:138:163
Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153:8637
TR:138:93
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867

Curved Beams
Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71:2459:8434
TR:138:20
Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
TR:138:24
Behavior of a Curved Steel Box Beam Bridge, Robert A. Greig and William L. Armstrong, Preprint No.2017, Apr 73
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
TR:138:507
Dead Load Design Of Curved Bridges, Conrad P. Heins, Jr. and E. L. Murphy, Preprint No.1924, Apr 73
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
TR:138:429
Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73:1349:9846
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
TR:138:48
Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
TR:138:210
Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848
TR:138:221
Survey of Curved Girder Bridges, Subcommittee on Curved Girders, Roger L. Brockenbrough, Chmn., CE:Feb 73:54
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
TR:138:382
Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Curved Profiles
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631

Curves
Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886
TR:138:263
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE:Jan 72:71
TR:138:58
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Cutoffs
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
TR:138:492

Cutting
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Cutting Management
Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748

Cyclic Loads
Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
TR:138:268
Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725
Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105
Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460
Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641
TR:138:106

Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564

Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
TR:138:431

Unified Approach to the Theory of Plastic Structures, M. A. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
TR:138:466

Cylinders

Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904

Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72:897:8920
TR:138:305

Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
TR:138:542

Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102
TR:138:362

Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72:1573:9416
TR:138:543

Cylindrical Bodies

Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
TR:138:201

Cylindrical Shells

Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
TR:138:311

Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7:July 72:1493:9033
TR:138:344

Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473

Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085

Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72:47:8717
TR:138:96

Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633:9074
TR:138:376

Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143

Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677

Cysts

Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98

Damage

Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247

Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725

Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229

Fatigue Damage Factor in Structural Design, Jhy-Pyng Tang and James T.P. Yao, ST1:Jan 72:125:8647
TR:138:126

Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365

Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
TR:138:423

Damage Control

Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49

Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60

Dam Construction

Construction of Keban Dam on the Euphrates River, Turkey, J. Fernandez Zuazo, Preprint No.1900, Jan 73

Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295

Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
TR:138:206

Dam Foundations

Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817

Beneficiation of Auburn Dam Foundation, Gerald F. Bowles and Glenn S. Tarbox, Preprint No.1878, Jan 73

Design of a Hydroelectric Powerplant in an Area of High Seismicity, Marian Pona and A. B. Arnold, Preprint No.1959, Apr 73

Potentially Active Faults in Dam Foundations, James L. Sherard and Lloyd S. Cluff, Preprint No.1948, Apr 73

Damping

Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222

Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175

Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218

Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959

Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and H. Akiyama, TB:73:II-17-619

Optimal Random Vibration Absorbers, Raymond G. Jacquot and David L. Hoppe, TN: EM3:June 73:612:9765

Response of Tall Buildings to Wind Loading, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, Preprint No.1939, Apr 73

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
TR;138:328

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354

Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
TR:138:184

Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403

Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
TR:138:431

Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667

Vibrations of Embedded Footings and Structures, Milos Novak, Preprint No.2029, Apr 73
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
TR:138:308

Damping Capacity

Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213

Dams

Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
TR:138:491
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
TR:138:472
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
TR:138:319
Beneficiation of Auburn Dam Foundation, Gerald F. Bowles and Glenn S. Tarbox, Preprint No.1878, Jan 73
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537
Construction of Keban Dam on the Euphrates River, Turkey, J. Fernandez Zuazo, Preprint No.1900, Jan 73
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Earth and Earth-Rock Dams, John Lowe, III, PES:73:II-55
Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55
Dsc: Melvin C. Sueltenfuss, CE:June 72:50; Stanley E. Degler, CE:May 72:48
TR:138:31
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
TR:138:493
High Head Gates and Valves in the United States, by the Task Committee on Outlet works of the Committee on Hydraulic Structures of the Hydraulic Division, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107
Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
TR:138:29
Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110
TR:138:374
Lavon Dam Modification, Garland E. Young, Preprint No.1923, Apr 73
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565
A New Look at California Dams and Earthquakes, Clifford J. Cortright, Preprint No.2011, Apr 73
New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
TR:138:67
Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666
TR:138:204
Potentially Active Faults in Dam Foundations, James L. Sherard and Lloyd S. Cluff, Preprint No.1948, Apr 73
Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
TR:138:603
Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division, Russell W. Revell, Chmn., HY2:Feb 73:337:9571
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
TR:138:511
Seismic Effects on an Earth Dam from an Explosion, Lyman W. Heller, Preprint No.1950, Apr 73
Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, Preprint No.2025, Apr 73
Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
TR:138:363
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
TR:138:43
Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72:1099:9272
TR:138:491
Water Resources Development: Tocks Island Lake, John A. Burnes, Preprint No.2081, Oct 73

Dams (Arch)

An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445
Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060

Dams (Buttress)

Tarbela Dam, Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
TR:138:594

Dams (Concrete)

Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
TR:138:319
Beneficiation of Auburn Dam Foundation, Gerald F. Bowles and Glenn S. Tarbox, Preprint No.1878, Jan 73
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565

Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
  Dsc: Jacob S. Parker, Jr., CE:July 73:28
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
  TR:138:550

Dams (Earth)
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939: 10170
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
  TR:138:596
Earth and Earth-Rock Dams, John Lowe, III, PES: 73:II-55
Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center and Thomas J. Rhone, Preprint No.1899, Jan 73
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, Preprint No.1885, Jan 73
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
  TR:138:490
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
  TR:138:493
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
  TR:138:337
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Lavon Dam Modification, Garland E. Young, Preprint No.1923, Apr 73
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
  TR:138:255
Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
  Dsc: Jacob S. Parker, Jr., CE:July 73:28
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
  TR:138:511
Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
  TR:138:282
Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053
Seismic Effects on an Earth Dam from an Explosion, Lyman W. Heller, Preprint No.1950, Apr 73
Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653: 9016
  TR:138:363
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
  TR:138:77
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
  TR:138:594
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72: 1099:9272
  TR:138:491

Dams (Embankment)
Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
  TR:138:491
An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710
Earth and Earth-Rock Dams, John Lowe, III, PES: 73:II-55
Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
  TR:138:490
Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, Preprint No.2025, Apr 73
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
  TR:138:567

Dams (Gravity)
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
  TR:138:319
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
  TR:138:550

Dams (Movable)
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
  TR:138:387

Dams (Rockfill)
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Constructional Deformations in Rockfill Dam, Arthur Penman and Andrew Charles, SM2:Feb 73:139: 9560
Earth and Earth-Rock Dams, John Lowe, III, PES: 73:II-55
Earth and Earth-Rock Dams -- Reporter's Summary, James L. Sherard, PES:73:III-77
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
  TR:138:494
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
  TR:138:490
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
  TR:138:492
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
  TR:138:567
Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
  TR:138:206
Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542

Darcys Law

Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
TR:138:580

Data

Environmental Impact Statements Discussed, CE:Feb 73:61

Data Acquisition

Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165
TR:138:438

Data Collection Systems

Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916

Data Processing

Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39:10015
Technology Transfer Requirements in Engineering, Charles A. Babendreier, Preprint No.2096, Oct 73

Data Storage

The Computer in Structural Stability Analysis, Bo O. Almroth and James H. Starnes, Jr., Preprint No.1936, Apr 73

Data Systems

Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
TR:138:540
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
TR:138:527
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578
TR:138:56
Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
TR:138:133
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289
TR:138:532
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
TR:138:336

Dead Loads

Dead Load Design Of Curved Bridges, Conrad P. Heins, Jr. and E. L. Murphy, Preprint No.1924, Apr 73

Debris

Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771
Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Dechlorination

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Decision Making

Consideration of Alternatives in Decisionmaking, Ellis L. Armstrong, Preprint No.1931, Apr 73
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
TR:138:476
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795
Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597:9915
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555

Decisions

Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389

Deep Water

Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45

Defense Systems

Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46

Definitions

Definitions of Surveying and Associated Terms -- Manual and Report on Engineering Practice No. 34, 1972, 205 pp.
TR:138:606
Glossary of Terms Pertaining to Structural Steel Engineering and Design, Ad Hoc Committee on Nomenclature, Administrative Committee on Metals of the Structural Division, Roland R. Graham, Jr., Chmn., ST8:Aug 71:2137:8322
TR:137:951

Deflection

Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71:2119:8327
TR:138:9
Analysis of Space Truss as Equivalent Plate, William R. Flower and Lewis C. Schmidt, ST12:Dec 71:2777:8569
TR:138:38
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811
Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75
TR:138:114
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679:8993
TR:138:330

Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
An Electro-Optical Deflection Measuring Device, Robert A. Crist, Richard Anthony Marshall and Harold I. Laursen, Preprint No.2031, Apr 73
Finite Deflections of Circular Membranes, John Peddieson, Jr., TN: EM3:June 73:634:9765
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73
Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819
Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
TR:138:589
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
TR:138:559
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514
Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045
TR:138:1
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
TR:138:436
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729:8544
TR:138:35
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
TR:138:439
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253
TR:137:976
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
TR:138:600
Stiffening Effect of Light Cladding, State-of-Art Report 4A, E. R. Bryan and J. M. Davies, TB:73:II-17-643
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143
TR:137:943
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
TR:138:297
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4:Aug 73:919:9898
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Wind Spectra and Alongwind Structural Response, Emil Simiu, Preprint No.2086, Oct 73

Deformation
Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
TR:138:311
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
TR:138:169
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372
TR:138:19
Constructional Deformations in Rockfill Dam, Arthur Penman and Andrew Charles, SM2:Feb 73:139:9560
Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, Samuel S.M. Chan and Grant L. Anderson, RM14:73:757
Curved I-Girders with Cross Sectional Deformation, John D. Mozer and Tek Sreang Chhim, Preprint No.1922, Apr 73
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
TR:138:499
Deformation in Multiple Tier Cylindrical Shells, James H. Williams, Jr., TN: EM10:Oct 73:1114:10041
Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765
Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147
TR:138:410
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
TR:138:141
Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
TR:138:461
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051

Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365
General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73:365:9604
Griffith Fracture Criterion and Concrete, Surendra P. Shah and Fred J. McGarry, EM6:Dec 71:1663:8597
  TR:138:45
Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226
Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3:June 73:445:9775
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61
  TR:138:291
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
  TR:138:21
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, Preprint No.1979, Apr 73
Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
  TR:138:124
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
  TR:138:590
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
  TR:138:508
Stability of Unbraced Single-Bay Multistory Frames, Abel Helmy Salem, ST2:Feb 73:223:9552
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
  TR:138:584
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467

Deformed Bars
An American Engineer in Israel, Irving Kett, CE:June 72:63
  Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73:52; Elias Zolkov, CE:June 73:24
  TR:138:295

Degradation
Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
  TR:138:40
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
  TR:138:220

Delaware
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Health Services Authority of Delaware, E. Wayne Martz, Preprint No.2068, Oct 73
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360

Delaware Basin
Tocks Island Lake Project -- Panel Discussion, Gerald T. McCarthy, Preprint No.2079, Oct 73

Delay Time
Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
  TR:138:27
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
  TR:138:232

Deltas
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033

Denitration
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
  Dsc: Otto W. Steinhardt, CE:July 73:22

Denitrification
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
  TR:138:448

Density
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
  TR:138:313
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939:10170
Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
  TR:138:382
Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
  TR:138:155
Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
  TR:138:588
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
  TR:138:600
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
  TR:138:530
Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
  TR:138:435

Density (Number/Volume)
Social Psychological Factors, Density, in Tall Buildings, Roy C. Herrenkohl, Preprint No.2066, Oct 73

Density Currents
About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509

Density-Flow
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261

Density Measurement
Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189

Density Stratification
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
  TR:138:37
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261

Deoxygenation
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Desalting
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
  TR:138:140
Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136
Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365
  TR:138:552
Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
  TR:138:549

Design
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
  TR:138:340
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
  Dsc: James T. Durning, CE:June 73:22
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
  TR:138:202
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
  TR:138:410
Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
  TR:138:299
Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
  TR:138:243
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555
Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951
  TR:138:266
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60
Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258
  TR:138:495
Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-European Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6:Dec 73:773:10220
Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, Preprint No.1918, Jan 73
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
  TR:138:500
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
  TR:138:475
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765
Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804
Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
  TR:138:540
Elastic Analysis and Design, Theme Report, Edwin H. Gaylord, TB:73:II-14-153
Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB:73:III-21-149
Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79
Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80
Environmental Impact Statements Discussed, CE:Feb 73:61

Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1: Jan 72:33:8657
TR:138:107
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695: 8986
TR:138:317
Fatigue Reliability and Design, James T.P. Yao, Preprint No.2023, Apr 73
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762
TR:138:153
Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73
Illustrations of Safety Evaluation and Risk-Based Design, Bruce R. Ellingwood and Alfredo H.-S. Ang, Preprint No.2023, Apr 73
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Modeling, Analysis and Updating of Uncertainties, Wilson H. Tang and Alfredo H.-S. Ang, Preprint No.2016, Apr 73
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
TR:138:593
Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
TR:138:77
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091
TR:138:343
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706
Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199: 9716
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517
Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6: Dec 71:1625:8584
TR:138:38
Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71
Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
TR:138:207
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145
Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
TR:138:439
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
TR:138:184
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
TR:138:146
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
Stiffening Effect of Light Cladding, State-of-Art Report 4A, E. R. Bryan and J. M. Davies, TB:73: II-17-643
Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
TR:138:557
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
TR:138:503
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
TR:138:105
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
TR:138:329
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Why Bidding Is Not In The Best Interest of The Client, John T. Merrifield, Preprint No.1965, Apr 73
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
TR:138:417

Design Assumptions

Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568

Design Criteria

Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
TR:138:393
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
TR:138:81
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
TR:138:142

Design Data

Dsc, Design of Functional Pavements, Ernest J. Barenberg, CE:Apr 73:40
Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354

Design Practices

Dsc, Design of Functional Pavements, Ernest J. Barenberg, CE:Apr 73:40

Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971
TR:138:120

Design Standards
Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
Dsc: Eugene T. Jensen, CE:July 72:69
TR:138:70

Desilting
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455

Desorption
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401
TR:138:498

Detention Reservoirs
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296

Deterioration
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22
Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73

Development
Dsc, Ecology and International Development, Kim de Rubertis, CE:Jan 73:27
Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732

Dewatering
Effects of Foundations on Adjacent Structures, State-of-Art Report 3, E. Horvat and Cornelius van der Veen, TB:73:Ia-11-905
Foundation Failure, Jacob Feld, CE:June 73:89
Dsc: M. D. Morris, CE:Aug 73:20

Dielectrics
Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12:Dec 73:1113:10235

Differential Equations
Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
TR:138:311
Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102
TR:138:362

Differential Settlement
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087

Diffraction
Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
TR:138:542
Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Diffusion
Analysis of Coupled Heat and Moisture Diffusion By Finite Elements, Thomas L. Cost and T. D. Loftin, Preprint No.1954, Apr 73
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161
Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11:Nov 72:1969:9330
TR:138:537
Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
TR:138:124
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
TR:138:435

Digital Computers
Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31
Dsc: Morton B. Lipetz, CE:June 73:22
Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117
TR:138:369

Digital Simulation
Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383
TR:138:23
Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803

Digital Techniques
Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45

Dikes

Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Dsc: George C. Govatos, CE:Mar 73:75
TR:138:400
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
TR:138:476
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
TR:138:179
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
TR:138:387
Trends in Offshore Airports, Richard D. Harza, TE4: Nov 72:985:9343
TR:138:497

Dilatancy

Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
TR:138:274
Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327

Dilution

Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365
TR:138:552
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663

Dimensional Analysis

Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
TR:138:223
Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561

Dimensional Measurement

Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893

Dimensions

Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72:
TR:138:387

Direct Shear

Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156

Disadvantaged Groups

Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555

Discharge

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Environmental Consideration in the Design of Blowdown Discharge Systems, Adnan M. Alsaffar, Preprint No.2065, Oct 73
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171:9034
TR:138:373

Discharge (Water)

Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Legal Aspects of Thermal Discharges, Angel J. Martin, Preprint No.2098, Oct 73
Mississippi River Water for Texas, Ottoniel Arguello and Raphael G. Kazmann, Preprint No.1867, Jan 73
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB: Aug 73:21
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Theoretical Irrigation Tailwater Volumes, Ott C. Wilke, TN: IR3:Sept 73:415:9967
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Discharge Coefficients

Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2: Feb 73:259:9542
Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1: Jan 72:1:8627
TR:138:84

Discharge Lines

Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014
TR:138:359

Discharge Measurement

Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482

Discontinuities

Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3: June 72:581:8970
TR:138:292
Experimental Study of Frictional Properties of Faults, F. A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610

Discrete Distribution Functions

Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
TR:137:969

Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273: 9280
TR:138:520

Disease Vectors
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
TR:138:67

Disinfection
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
TR:138:222
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703
TR:138:172
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
TR:138:231

Dispersion
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
TR:138:197
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
TR:138:50
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743
TR:138:251
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313: 10241
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165: 9768
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
TR:138:435

Dispersions
Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849
TR:138:333
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004

Displacement
Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
TR:138:436
Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043: 9772
Punching Shear Characteristics of RHS Joints, Narsing M. Patel, William J. Graff and Ardis H. White, Preprint No.1963, Apr 73
Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823: 9095
TR:138:355

Displacements
Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593

Display Devices
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
TR:138:90

Dissipation
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295

Dissipation Factor
Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Dissolved Oxygen
Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883: 8601
TR:138:135
Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743
TR:138:251
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909: 10208
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65: 8984
TR:138:255
Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4: Aug 73:479:9943

Dissolved Solids
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
TR:138:153

Distance Measuring Equipment
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
TR:137:852

Distribution
Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
TR:138:429

Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
TR:138:550

Distribution Functions
Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
TR:138:443

Distribution Patterns
Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556

Distribution Systems
Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
TR:138:43

Ditches
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Diversion
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
TR:138:409

Diversion Works
Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31

Diving
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66

Diving Suits
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66

Docks
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
TR:138:79
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903
TR:138:335
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Documentation
Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614

Domes (Structural Forms)
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096

Douglas Fir Wood
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623
Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788

Drafting (Drawing)
Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31
Dsc: Morton B. Lipetz, CE:June 73:22

Draft-Storage Curves
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
TR:138:528

Draft Tubes
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707

Drag
Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483
Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72:897:8920
TR:138:305
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
TR:138:149
Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
TR:138:448
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528
Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB: Aug 73:43
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
TR:138:239
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
TR:138:503

Drainage
Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607
Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
TR:138:60
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
TR:138:104
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
TR:138:168
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260
Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995
TR:138:383
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219
TR:138:539

Ecological Impacts of Water Projects in California, Robert M. Hagan and Edwin B. Roberts, IR1:Mar 72:25:8780

TR:138:198

An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255

TR:138:511

Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE: Dec 73:49

Environmental Impact Studies of Highways, Satoshi Oishi and Charles H. Flavin, Preprint No.2048, July 73

The Environment and the Law, Remy R.L. de Jong, Preprint No.2071, Oct 73

Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169

TR:137:978

Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395

Evaluation and Control of Urban Runoff, John C. Schaake, Jr., Guy Leclerc and Brandan M. Harley, Preprint No.2103, Oct 73

Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438

TR:138:601

General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, Floyd A. Bishop, Chmn., IR2:June 72:317:8996

TR:138:396

The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60

Hydraulic Modeling of Flow in Porous Media, J. C. Guitjens, Preprint No.1886, Jan 73

Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906

TR:138:219

Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73: 519:10188

Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3: Sept 72:363:9183

TR:138:460

KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41

TR:138:480

Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73: 207:10005

A Master Planning Methodology for Urban Drainage, Harold F. Bishop, Preprint No.1887, Jan 73

Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943

TR:138:267

Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373

TR:138:13

Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72: 1575:9206

TR:138:486

A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171: 9034

TR:138:373

Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459: 9167

TR:138:411

New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956

New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613

TR:138:76

Operation and Maintenance of Irrigation and Drainage Systems: Section III. - By the Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Robert L. Taylor, Chmn., IR3:Sept 73: 237:10014

People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37

Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65

TR:138:67

Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443

TR:138:576

Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787

TR:138:212

Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543: 9422

TR:138:594

Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244

Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964

TR:138:344

Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255: 8953

TR:138:305

Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759

TR:138:90

Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73

Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171

TR:138:425

Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1: Mar 72:13:8777

TR:138:185

State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217

Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375: 10013

Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659

Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457: 10243

Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Upstream Drainage Increases Spillway Stability, Charles D. Craddock, Preprint No.1902, Jan 73

Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770

TR:138:145

Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213

Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Drainage Systems

Operation and Maintenance of Irrigation and Drainage Systems: Section III. - By the Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Robert L. Taylor, Chmn., IR3:Sept 73: 237:10014

Upstream Drainage Increases Spillway Stability, Charles D. Craddock, Preprint No.1902, Jan 73

Drained Shear Tests

Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179: 10189

Drains

Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
TR:138:168

Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249

Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435

Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97: 8759
TR:138:90

Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
TR:138:282

Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72: 211:8737
TR:138:138

Water Management by Shallow Drainage, Royal H. Brooks and John C. Nibler, Preprint No.1868, Jan 73

Drawbridges

Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833

Drawdown

Environmental Impact and Hydraulic Structures -- Current and Predicted, Danny L. King, Glenn R. Drummond and David W. McDougall, Preprint No.1913, Jan 73

Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058

Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
TR:138:511

Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Drawing

Computer Simulation of Distorted Structural Frameworks, Henry N. Christiansen, Preprint No.2080, Oct 73

Interactive Graphics: Portability and Adaptability, Robert H. Ewald, Larry J. Feeser and Robert L. Schiffman, Preprint No.2082, Oct 73

Dredges

Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45

Ecological Benefits of Hydraulic Dredging, Thomas M. Turner, Preprint No.1874, Jan 73

Dredging

Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Ecological Benefits of Hydraulic Dredging, Thomas M. Turner, Preprint No.1874, Jan 73

Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342
TR:138:529

Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265: 9757

Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575

New Pier in Jamaica Bay, Remig A. Papp, CE:Aug 72:52
TR:138:372

Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
TR:138:469

Drift

Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635

Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267

Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653

Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995

Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303

Drilling

Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
TR:138:60

Droughts

Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
TR:138:60

Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72: 433:9219
TR:138:539

Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229

Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472

Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72: 215:8955
TR:138:318

Drydocks

New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712

1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Dual System

Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Ductility

Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, Preprint No.1970, Apr 73

Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303

Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101

External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661

Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353

Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501

Dunes
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
  Dsc: George C. Govatos, CE:Mar 73:75
  TR:138:400
Determination of Kennedy's Parameter j for Dunes, M. Selim Yalin, TN: HY8:Aug 73:1287:9910
Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
  TR:137:967
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618
Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, Preprint No.2106, Oct 73

Dupuit-Forchheimer Theory
Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Durability
Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73
Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71:681:8543
  TR:138:6
Inelastic Tests Of Repaired Concrete Connections, William H. Townsend, Duane L.N. Lee and Robert D. Hanson, Preprint No.2010, Apr 73
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825

Dust Storms
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
  TR:138:249

Dyes
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770

Dynamic Characteristics
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
  TR:138:528
Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72:1529:9429
  TR:138:549

Dynamic Loads
Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, Preprint No.1970, Apr 73
Bridge Beam Response to Simulated Traffic, Fred P. Wagner, Jr. and Kishor C. Mehta, Preprint No.1964, Apr 73
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363
  TR:138:541
Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
  TR:138:603
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431
Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725
  TR:138:110
Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121
Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77
Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291
Influence of Loading Rate On Rock Response, Dale E. Stephenson and George E. Triandafilidis, Preprint No.2004, Apr 73
Limit State for Dynamic Loads, Horea Sandi, TB:73:III-26-938
Safety Against Dynamic Forces, Masanobu Shinozuka, Preprint No.2323, Apr 73
Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, Preprint No.1976, Apr 73
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335
The 747 Fatigue and Fail Safe Testing, Max M. Spencer, Preprint No.1992, Apr 73

Dynamic Programming
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Dynamic Programming Runway Configuration Schemes, Jason C. Yu and David R. Gibson, Preprint No.2034, July 73
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021

Dynamic Properties
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
  TR:138:559

Dynamic Response
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248
Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961
  TR:138:278
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
  TR:138:343
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
  TR:138:588
Wind Spectra and Alongwind Structural Response, Emil Simiu, Preprint No.2086, Oct 73

Dynamics
About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950

Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441

TR:138:569

Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175

Concept of Structural Control, James T. P. Yao, ST7: July 72:1567:9048

TR:138:357

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105:9281

TR:138:527

Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749

Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399

Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652

Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824

TR:138:218

Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679:8993

TR:138:330

Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595

Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451

TR:138:603

Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988

TR:138:303

Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978

TR:138:304

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344

TR:138:540

Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782

Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229

Fatigue Failure of Nonlinear Multistory Seismic Structure, Iyadurai Kasiraj, ST3:Mar 72:655:8792

TR:138:194

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806

TR:138:176

Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735:9913

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231

Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6: Dec 72:1471:9433

TR:138:560

Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603

Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983

TR:138:228

Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805

TR:138:170

Nonlinear Dynamics of Curved Cable Elements, John W. Leonard, TN: EM3:June 73:616:9765

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091

TR:138:343

Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328

TR:138:531

Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822

TR:138:211

Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092

Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Safety Against Dynamic Forces, Masanobu Shinozuka, Preprint No.2323, Apr 73

Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716

TR:138:89

Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289

TR:138:532

Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260

TR:138:495

Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73:715:9918

Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152

TR:138:425

Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914

TR:138:249

Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72:1291:9412

TR:138:568

Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092

TR:138:350

Dynamic Stability

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968

TR:138:286

Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978

TR:138:304

Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565

Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463

Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399

Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273:9280

TR:138:520

Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271:9647

Dynamic Structural Analysis

Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3: June 72:731:8998

TR:138:337

Analysis of an 80-Foot Aircraft Shelter for Construction Stresses, J. P. Balsara and R. E. Walker, Preprint No.2019, Apr 73
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652
Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147
TR:138:410
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127
TR:138:388
Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7: July 72:1475:9038
TR:138:352
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73
Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, Preprint No.1934, Apr 73
Dynamic Response of Structures to Combined Effects of Ground Shock and Air Blast, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, Preprint No.1989, Apr 73
Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989
Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327
Fatigue Reliability and Design, James T.P. Yao, Preprint No.2023, Apr 73
Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72: 1529:9429
TR:138:549
Identification of Random Systems and Applications, T. T. Soong, Preprint No.2001, Apr 73
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72: 519:8961
TR:138:278
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267
Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Safety Against Dynamic Forces, Masanobu Shinozuka, Preprint No.2323, Apr 73
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95
TR:138:424
Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053
Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73: 1
Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
TR:138:393
Seismic Ground Response of Dumbarton Bridge, Rudy J. Dietrich, Preprint No.1998, Apr 73
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72: 1087:9260
TR:138:495
Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394

Dynamic Tests
Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213

Dynamite
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151

Dysentery
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98

Earthfill
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696

Earth Fills
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068

Earth Materials
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72: 1325:9417
TR:138:575
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068

Earth Movements
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
TR:138:316

Earthmoving
Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763
TR:138:208

Earth Pressure
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71: 1183:8372
TR:138:19
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568
Distribution of Wind Loads to Soils, State-of-Art Report 2, S. V. De Simone, TB:73:Ia-11-881
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
TR:138:347
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12: Dec 71:1657:8583
TR:138:95
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
TR:138:538

Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221

Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES: 73:III-265

Earth Pressure Coefficient

Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401
TR:138:33

Earthquake Damage

Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings and J. L. Smith, Preprint No.2014, Apr 73

Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279

Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55
Dsc: Christopher G. Tyson, CE:Sept 72:65
TR:138:190

Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247

Earthquake Codes -- Poison or Panacea?, Robert C. Cassano, Preprint No.1947, Apr 73

Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, Preprint No.2009, Apr 73

Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689

Earthquake Repairs, Kaiser Hospital, Panorama City, California, Donald R. Strand, Preprint No.1996, Apr 73

Foundation Problems for Large Earthquakes, James D. Roberts and William F. Jones, Preprint No.1943, Apr 73

Gas Line Response to Earthquakes, John D. McNorgan, Preprint No.1975, Apr 73

Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

A New Look at California Dams and Earthquakes, Clifford J. Cortright, Preprint No.2011, Apr 73

Practical Traffic Considerations in Earthquake Country, Haig Ayanian, Preprint No.1942, Apr 73

Repair of Earthquake Damage at Holy Cross Hospital, Los Angeles (Mission Hills), California, Robert W. Spracklen, Preprint No.1941, Apr 73

Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, Preprint No.2026, Apr 73

Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, Preprint No.1951, Apr 73

Seismic Effects on an Earth Dam from an Explosion, Lyman W. Heller, Preprint No.1950, Apr 73

Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, Preprint No.2025, Apr 73

Site Response Procedures for Major Buildings, Neville C. Donovan, Preprint No.2027, Apr 73

Structural Repair of Earthquake Damaged Buildings, Jack M. Fratt, Preprint No.1973, Apr 73

Earthquake Engineering

California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
TR:138:307

Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320

Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58
Dsc: Ramzi H. Ferahian, CE:Aug 72:68; Robert V. Whitman, CE:Aug 72:68
TR:138:254

The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95
TR:138:424

Earthquake Loads

Concept of Structural Control, James T. P. Yao, ST7: July 72:1567:9048
TR:138:357

Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23

Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790

Designing for Seismic Soil-Structure Interaction, Richard A. Parmelee, Preprint No.1985, Apr 73

Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635

Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505

Fatigue Damage in Seismic Steel Members, R. Srinivasan and William H. Munse, TB:73:II-18-814

Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808

Gas Line Response to Earthquakes, John D. McNorgan, Preprint No.1975, Apr 73

Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291

Inelastic Tests Of Repaired Concrete Connections, William H. Townsend, Duane L.N. Lee and Robert D. Hanson, Preprint No.2010, Apr 73

Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, Preprint No.1937, Apr 73

Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267

Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739

Multi-Story Reinforced Concrete Frame Models, Asadul H. Chowdhury, Richard N. White and Norman R. Scott, Preprint No.2002, Apr 73

Practical Design for Seismic Loads in Wood Roof Framing, Warren H. Bower, Preprint No.1969, Apr 73

Safety Against Dynamic Forces, Masanobu Shinozuka, Preprint No.2323, Apr 73

Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053

Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, Preprint No.1951, Apr 73

Seismic Effects on an Earth Dam from an Explosion, Lyman W. Heller, Preprint No.1950, Apr 73

Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, Preprint No.1979, Apr 73

Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, Preprint No.1976, Apr 73

Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1

Earthquake Resistant Structures

Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291

Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950

Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings and J. L. Smith, Preprint No.2014, Apr 73

Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279

Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299

The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55
  Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73: 65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
  TR:138:377
Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247
Designing for Seismic Soil-Structure Interaction, Richard A. Parmelee, Preprint No.1985, Apr 73
Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875: 9978
Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303
Earthquake Codes -- Poison or Panacea?, Robert C. Cassano, Preprint No.1947, Apr 73
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Earthquake Repairs, Kaiser Hospital, Panorama City, California, Donald R. Strand, Preprint No.1996, Apr 73
Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
  TR:138:540
Earthquakes -- We Live With Them But Don't Love Them, Arthur L. Elliott, Preprint No.1927, Apr 73
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695: 8986
  TR:138:317
Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808
Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217
Foundation Problems for Large Earthquakes, James D. Roberts and William F. Jones, Preprint No.1943, Apr 73
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
  TR:138:187
A New Look at California Dams and Earthquakes, Clifford J. Cortright, Preprint No.2011, Apr 73
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, Preprint No.1929, Apr 73
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12: Dec 73:2345:10230
Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60
Repair of Earthquake Damage at Holy Cross Hospital, Los Angeles (Mission Hills), California, Robert W. Spracklen, Preprint No.1941, Apr 73
Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, Preprint No.2026, Apr 73
Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58
  Dsc: Ramzi H. Ferahian, CE:Aug 72:68; Robert V. Whitman, CE:Aug 72:68
  TR:138:254
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95
  TR:138:424
Seismic Ground Response of Dumbarton Bridge, Rudy J. Dietrich, Preprint No.1998, Apr 73
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164
Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, Preprint No.2025, Apr 73
Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140
Site Response Procedures for Major Buildings, Neville C. Donovan, Preprint No.2027, Apr 73
Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
  TR:138:423
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, Yoichi Higashi and Toshikazu Takeda, TB:73:III-24-655
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343
Structural Repair of Earthquake Damaged Buildings, Jack M. Fratt, Preprint No.1973, Apr 73

Earthquakes
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
  TR:138:340
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733
  TR:138:126
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115
Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950
The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55
  Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73: 65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
  TR:138:377
Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
  TR:138:268
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
  TR:138:319
Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875: 9978
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
  TR:138:218
Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7: July 72:1475:9038
  TR:138:352

Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177

Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026
TR:138:338

Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310

Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237

Earthquake Codes -- Poison or Panacea?, Robert C. Cassano, Preprint No.1947, Apr 73

Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383:8399
TR:138:15

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240
TR:137:989

Earthquake Ground Motion, State-of-Art Report I, George W. Housner, TB:73:Ib-6-159

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, Preprint No.2009, Apr 73

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105

Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060

Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
TR:138:416

Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151

Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689

Earthquake Repairs, Kaiser Hospital, Panorama City, California, Donald R. Strand, Preprint No.1996, Apr 73

Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
TR:138:540

Earthquakes -- We Live With Them But Don't Love Them, Arthur L. Elliott, Preprint No.1927, Apr 73

Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255

Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
TR:138:465

Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215

Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229

Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695:8986
TR:138:317

Fatigue Damage in Seismic Steel Members, R. Srinivasan and William H. Munse, TB:73:II-18-814

Fatigue Failure of Nonlinear Multistory Seismic Structure, Iyadurai Kasiraj, ST3:Mar 72:655:8792
TR:138:194

Foundation Problems for Large Earthquakes, James D. Roberts and William F. Jones, Preprint No.1943, Apr 73

Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149

Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565

Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
TR:138:365

Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563

Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65

Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and H. Akiyama, TB:73:II-17-619

Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133

Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741

Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603

A New Look at California Dams and Earthquakes, Clifford J. Cortright, Preprint No.2011, Apr 73

Non-Synchronous Ground Motion, Horea Sandi, TB:73:Ib-6-325

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
TR:138:343

Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72:1255:8937
TR:138:288

Practical Traffic Considerations in Earthquake Country, Haig Ayanian, Preprint No.1942, Apr 73

Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328
TR:138:531

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320

Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6:Dec 71:1625:8584
TR:138:38

Repairing Buildings Damaged in Earthquake, CE:Oct 73:62

Repair of Earthquake Damage at Holy Cross Hospital, Los Angeles (Mission Hills), California, Robert W. Spracklen, Preprint No.1941, Apr 73

The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE:Sept 72:95
TR:138:424

Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305:10145

Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
TR:138:393

Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142

Seismic Effects on an Earth Dam from an Explosion, Lyman W. Heller, Preprint No.1950, Apr 73

Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48

Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73:281:10164

Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
TR:138:256

Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72:381:8844
TR:138:264

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354

Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203

Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9: Sept 71:1249:8371
TR:138:8

Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
TR:138:423

Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229

Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176

Earthquake Theory

Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72: 1529:9429
TR:138:549

Easements

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367: 9751

Eccentric Loading

Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384
TR:137:1015

Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464

Ecology

Balancing Environmental and Developmental Values, Gary C. Taylor, Preprint No.1910, Jan 73

Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
TR:138:182

Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
TR:138:290

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
TR:138:475

Ecological Benefits of Hydraulic Dredging, Thomas M. Turner, Preprint No.1874, Jan 73

Dsc, Ecology and International Development, Kim de Rubertis, CE:Jan 73:27

Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
TR:138:474

The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
TR:138:352

Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738

Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877

Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93

Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
TR:138:422

Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
TR:138:227

People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
TR:138:67

Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539

Quality System in Construction, Edward A. Abdun-Nur and John E. Rinne, Preprint No.1912, Jan 73

Quantifying the Environmental Impact of Transportation Systems, William L. Smith, Preprint No.2049, July 73

Some Problems of Pipeline Route Selection, Frederick E. Culvern, George H. Watson and J. E. Wilson, Preprint No.2057, July 73

Tocks Island Lake Project -- Panel Discussion, Gerald T. McCarthy, Preprint No.2079, Oct 73

Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368
TR:138:28

20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Economic Analysis

Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151

Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199

Balancing Environmental and Developmental Values, Gary C. Taylor, Preprint No.1910, Jan 73

Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
TR:138:188

Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72: 869:9434
TR:138:552

Cost Effective Waterway Design and Operation, Bruce Barker and Gerald D. Seinwill, Preprint No.2050, July 73

Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231

Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151

Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6: June 72:1273:8973
TR:138:298

Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
TR:138:355

Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255

Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319

Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72: 465:9120
TR:138:377

Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977

The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73: Ia-1-103

Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
TR:138:353

Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289

Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669

Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575

Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597

Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662

Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72: 1575:9206
TR:138:486

Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972
Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73: II-14-201
Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
  TR:138:269
The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492
Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division, Russell W. Revell, Chmn., HY2:Feb 73: 337:9571
Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
  TR:138:314
Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1: July 73:175:9888
Structural Systems, Summary Report -- Part II, Friedrich K. Reinitzhuber, TB:73:Ia-3-651
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941
Use of Simulation in Airport Planning and Design, Dana E. Low, Preprint No.2038, July 73
Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772
  TR:138:157

Economic Development
Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72: 215:8955
  TR:138:318

Economic Factors
Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72: 465:9120
  TR:138:377
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73: Ia-1-103
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
  TR:138:9

Economic Feasibility
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
  Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE: Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
  TR:138:434

Economic Forecasting
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73: Ia-1-103

Economic Growth
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73: 159:9663

Economic Impact
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619

Economic Models
Economic Modelling, Alan D. Russell, Preprint No.2066, Oct 73

Economics
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
  TR:138:540
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, Preprint No.1898, Jan 73
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72:
  TR:138:387
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
  TR:138:353
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
  TR:138:544
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72: 71:8720
  TR:138:216
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
  TR:138:232
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
  TR:138:478
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
  TR:138:187
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909: 10208
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
  TR:138:534
Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551

A Professor Talks About Civil Engineering Education, CE:Aug 72:65
TR:138:385
The Role of the Engineer in Systems Building, Tung Y. Lin, Preprint No.2012, Apr 73
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
TR:138:440
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259
TR:138:550

Economic Surveys
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73:Ia-1-103

Economies
General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133

Eddies
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618

Edge Effect
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617
Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, TN: EM4:Aug 73:907:9898

Education
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
TR:138:191
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
TR:138:563
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
TR:138:395
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
TR:138:39
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
TR:138:544
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Federal Funds Available to Sections for Minority Programs, Steve Tuttle, CE:Feb 73:66
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2:Dec 71:149:8568
Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762
TR:138:153
Health Services Authority of Delaware, E. Wayne Martz, Preprint No.2068, Oct 73
National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE:Mar 73:64
Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
Dsc: L. Lawrence Lewis, CE:Nov 73:24
TR:138:16
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
TR:138:166
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832
Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003

Eductors
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
TR:138:596

Effectiveness
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
TR:138:81

Efficiency
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
TR:138:502
Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994
TR:137:934
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916
Water Conveyance: Laws, Organization and Efficiency, G. E. Radosevich, Preprint No.1906, Jan 73

Effluents
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509

Egypt
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
TR:138:67
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
TR:138:220

Eigenvalues
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
TR:138:484
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958
TR:138:273
Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
TR:138:369
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
TR:138:508

Eigenvectors
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3: June 72:561:8958
TR:138:273

Ejectors
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
TR:138:596

Elastic Analysis
Autostress Design of Steel Structures, Geerhard Haaijer, Preprint No.1930, Apr 73
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Curved I-Girders with Cross Sectional Deformation, John D. Mozer and Tek Sreang Chhim, Preprint No.1922, Apr 73
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Elastic Analysis and Design, Theme Report, Edwin H. Gaylord, TB:73:II-14-153
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325
Elastic-Plastic Buckling of Anisotropic Plates, Lawrence L. Durocher and Anthony N. Palazotto, Preprint No.1997, Apr 73
Methods of Analysis, Bernardo J. Deschapelles, TB: 73:III-21-309
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337: 9404
TR:138:538
Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223
Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223
Reinforced Concrete Columns Today, Ignacio Martin, Preprint No.1919, Apr 73
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683

Elastic Foundations
Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE1:Feb 72:37:8699
TR:138:36
Rectangular Loads on Inhomogeneous Elastic Soil, Peter T. Brown and Robert E. Gibson, TN: SM10: Oct 73:917:10042
Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271: 9647
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
TR:138:297
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
TR:138:350

Elasticity (Mechanical)
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133
TR:138:395

Elastic Modulus
Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8: Aug 73:617:9919
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Elastic-Plastic Analysis
Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513
Elastic-Plastic Buckling of Anisotropic Plates, Lawrence L. Durocher and Anthony N. Palazotto, Preprint No.1997, Apr 73
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790
TR:138:217
Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
TR:138:372
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, EM6:Dec 73:1181:10210
Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845
TR:138:218
On The Nonlinear Theory of Shells, Gerald A. Wempner, Preprint No.2095, Oct 73
Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239
TR:138:477

Elastic Properties
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437
Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670
TR:138:134
Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363
TR:138:541
Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1: Feb 73:85:9548
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717
TR:138:96
Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
TR:138:461
Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784
TR:138:174
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
TR:138:223
Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439: 10232
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10: Oct 73:2011:10091
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501

Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273:9280
  TR:138:520
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
  TR:138:554
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6:Dec 72:1417:9446
  TR:138:586
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095
  TR:138:355
Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102
  TR:138:362
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71:1451:8415
  TR:138:3
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
  TR:138:479

Elastic Shells
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
  TR:138:484
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
  TR:138:577

Elastic Theory
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577
  TR:137:958
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72:1325:9417
  TR:138:575

Elastic Waves
Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536

Elastomers
Elastomeric Bridge Bearings, Charles E. Rejcha, CE:May 72:46
  Dsc: Knut S. Platou, CE:Jan 73:73
  TR:138:233

Elasto-Plastic
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
  TR:138:499
Elastic-Plastic, Large Deformation Response of Soil to Footing Loads, Hugh L. Davidson and Wai F. Chen, Preprint No.2070, Oct 73

Elections
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73

Electrical Design
Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
  Dsc: Donald H. Komito, CE:July 72:52
  TR:138:158

Electrical Equipment
Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings and J. L. Smith, Preprint No.2014, Apr 73
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Service Systems, Theme Report, Richard Baum, TB:73:Ia-2-305

Electric Conductors
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382

Electric Drives
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
  TR:138:212

Electric Networks
Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
  TR:138:603

Electric Power Costs
Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193:10016

Electric Power Distribution
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382

Electric Power Generation
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
  TR:138:92
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
  TR:138:140
Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257
  TR:138:525
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70
  TR:138:262

Electric Utilities
The Impact of Urban Planning on Electric Utilities, Alfred R. Golze, Preprint No.1903, Jan 73

Electromagnetic Testing
Civil Engineering Applications of Remote Sensing, David J. Barr and Wesley P. James, Preprint No.2072, Oct 73

Electromagnetic Wave Transmission
Civil Engineering Applications of Remote Sensing, David J. Barr and Wesley P. James, Preprint No.2072, Oct 73

Electromyography
Fourier Analysis of Simulated and Recorded EMG, Gyan C. Agarwal and Gerald L. Gottlieb, Preprint No.2035, July 73

Electronic Computers
Engineering Requirements for Computer Software, Robert J. Melosh, Preprint No.2022, Apr 73
On the Alternatives and Considerations for Acquiring Computer-Aided Analysis Tools, Kenneth Medearis, Preprint No.2022, Apr 73
On the Implementation of Computer Software, John M. McCormick and Melvin L. Baron, Preprint No.2022, Apr 73
On the Sources of Computer Software, Nicholas Perrone, Preprint No.2022, Apr 73
Specifications for Computer Software, Robert K. Waddick and Charles F. Beck, Preprint No.2022, Apr 73

The State of the Art of Computer Graphics -- Applications in Structural Engineering, Task Committee on Computer Graphics of the Committee on Electronic Computation, Structural Division, Robert D. Logcher, Chmn., Preprint No.2024, Apr 73

Electronic Equipment
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
TR:138:90

Electronics
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
TR:138:566

Electrooptics
An Electro-Optical Deflection Measuring Device, Robert A. Crist, Richard Anthony Marshall and Harold I. Laursen, Preprint No.2031, Apr 73

Electroosmosis
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73:603:9912

Electrostatic Precipitation
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Elevated Railroads
Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
TR:138:590
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
Dsc: Larry Madsen, CE:Aug 72:54
TR:138:226

Elevation
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
TR:138:445

Elevators (Lifts)
Comments on Fire, M. Galbreath, J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Service Systems, Theme Report, Richard Baum, TB:73:Ia-2-305
United California Bank, Ormond Robert Berry, TB:73:C-P-251
Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341

Elliptic Differential Equations
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819

Embankments
Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
TR:138:349
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537
Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066
TR:138:391
Embankments on Soft Ground, Laurits Bjerrum, PES:73:II-1
Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49
Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
TR:138:175
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
TR:138:493
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
TR:138:480
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
TR:138:363
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
TR:138:594
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72:1099:9272
TR:138:491

Embedding
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
TR:138:582

Employee Relations
CE:Apr 73:55
Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
TR:138:458
Guideline: Employer--Engineer Relationship, Committee on Employment Conditions of the Professional Practice Division, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
TR:138:583
Management the Lincoln Electric Way, CE:Jan 73:76
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Public Dissent and Professional Responsibility, CE:Sept 73:98
Superior Pension Plan Helps Attract Employees, Jack L. Schoustra and Richard S. Summerhays, CE:Jan 73:58
Dsc: John H. Meursinge, CE:Apr 73:77
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
TR:138:447

Employment
CE:Apr 73:55
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
Dsc: Sandra Johnson, CE:July 73:25; Della Laura, CE:July 73:25; Amos Roos, CE:July 73:26; Dorothy M.N. McClellan, CE:July 73:26; Della Laura, CE:Oct 73:32
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
TR:138:607
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Guideline: Employer--Engineer Relationship, Committee on Employment Conditions of the Professional Practice Division, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
TR:138:583
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080

Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
  TR:138:485
President's Annual Address, John E. Rinne, CE:July 73:87
A Professor Talks About Civil Engineering Education, CE:Aug 72:65
  TR:138:385
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
  TR:138:5
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
  TR:138:312
Superior Pension Plan Helps Attract Employees, Jack L. Schoustra and Richard S. Summerhays, CE:Jan 73:58
  Dsc: John H. Meursinge, CE:Apr 73:77

Employment Opportunities
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
  TR:138:170

Encapsulating
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240

Energy
The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71:2023:8599
  TR:138:72
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
  Dsc: Raphael G. Kazmann, CE:Dec 73:22
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095
  TR:138:355
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
  TR:138:81

Energy Dissipation
Hydraulic Jump Assisted by Cross-Jet, Teh-Yuh Kao, HY12:Dec 71:2037:8614
  TR:138:78
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349
Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14:73:223

Energy Dissipators
Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7:July 72:1127:9007
  TR:138:341
Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
  TR:138:151

Energy Equation
Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073

Energy Methods
Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
  TR:138:369
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
  TR:138:508

Engineering
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
  TR:138:96
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105:9281
  TR:138:527
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1:Jan 72:33:8657
  TR:138:107
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087
Project Planning, John M. Shields, SU1:July 72:61:9041
  TR:138:202
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569
Systems Approach to Building, James R. Cagley, CE:Apr 73:59
  Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20
Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29
Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31

Engineering Education
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
  TR:138:324
ASCE and Graduate Students: Faculty Advisors Opinion, Keith C. Crandall, Preprint No.1972, Apr 73
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith C. Crandall, PP3:July 73:307:9882
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
  TR:138:607
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72:
  TR:138:266
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72:645:9282
  TR:138:591
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
  TR:138:191
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
  TR:138:563
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
  TR:138:395
Continuing Education in Mid-Career: The Graduate Public Works Program at Pittsburgh, William D. Brinckloe, Preprint No.2054, July 73
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
  TR:138:39

The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
TR:138:544

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751

Engineering For People, Richard R. Harbert, PP3:July 72:387:9058
TR:138:441

The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64
TR:138:98

"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082

The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825
TR:138:264

Esthetics -- A Necessary Part of the Engineer's Education, Frederick M. Law, Preprint No.2075, Oct 73

Fluid Mechanics Teaching and Research: A View from a Dean's Office, Hunter Rouse, HY5:May 72:775:8899
TR:138:287

Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
TR:138:332

How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049
TR:138:287

The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
TR:138:337

The Making of a "Pro" -- A Faculty Viewpoint, Dan H. Pletta, Preprint No.2063, Oct 73

The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Milton Alpern, Preprint No.2073, Oct 73

The Making of a "Pro" -- or, Motivating Students Towards Professional Thinking. The Practitioner's Viewpoint, Joseph M. DeSalvo, Preprint No.2084, Oct 73

Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523

Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
TR:138:485

National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE:Mar 73:64

The Nature of Continuing Education, Alfred C. Ingersoll, PP1:Jan 72:113:8660
TR:138:144

Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
Dsc: L. Lawrence Lewis, CE:Nov 73:24
TR:138:16

President's Annual Address, John E. Rinne, CE:July 73:87

Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
TR:138:80

A Professor Talks About Civil Engineering Education, CE:Aug 72:65
TR:138:385

Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83

Reflection on My Profession by a Black Civil Engineer, Benito A. Sinclair, Preprint No.1901, Jan 73

Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747

Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832

Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
TR:138:121

Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71:65:8457
TR:138:10

University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49
TR:138:20

Welcoming Remarks at Tall Buildings Conference, Albert C. Zettlemoyer, Vice President and Provost, Lehigh University, TB:73:C-25

What Graduate Students Want From ASCE, Harold J. Singer, Preprint No.1971, Apr 73

What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

Engineering Evaluation

The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492

Engineering Geology

Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
TR:138:189

Influence of Loading Rate On Rock Response, Dale E. Stephenson and George E. Triandafilidis, Preprint No.2004, Apr 73

Engineering Mechanics

Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
TR:138:311

Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3:June 72:731:8998
TR:138:337

Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904

Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101

Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431
TR:138:27

Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215

Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814

Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73:1283:10207

An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733
TR:138:126

Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950

Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5:Oct 72:1115:9247
TR:138:471

Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765

Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6:Dec 72:1353:9441
TR:138:569

Bearing Strength of Concrete Blocks, Wai F. Chen, TN: EM6:Dec 73:1314:10187

Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853:9917

Bending of Spectoral Plates with Clamped Edges, John W. Weber, TN: EM2:Apr 73:440:9641

Bifurcation Analyses for Shallow Arches, Clive L. Dym, EM2:Apr 73:287:9649

Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745
TR:138:156

Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847
TR:138:236

Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177:8726
TR:138:115
Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812
Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900
Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951
TR:138:266
Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085
Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187
Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238
Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651
Consolidation of Porous Media with Non-Darcy Flow, James D. Westmann and Russell A. Westmann, EM6:Dec 73:1201:10211
Contact Stresses in Twisted Wire Cables, James W. Phillips and George H. Costello, EM2:Apr 73:331:9676
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054
Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1075:9240
TR:138:453
Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3:June 72:595:8968
TR:138:286
Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902
Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3:June 72:581:8970
TR:138:292
Deformation in Multiple Tier Cylindrical Shells, James H. Williams, Jr., TN: EM10:Oct 73:1114:10041
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652
Dirichlet Series Creep Function for Aging Concrete, Zdenek P. Bazant and Spencer T. Wu, EM2:Apr 73:367:9645
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
TR:138:197
Displacement Bounds for Blast Loaded Structures, Walter J. Morales, EM4:Aug 72:965:9147
TR:138:410
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
TR:138:218
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679:8993
TR:138:330
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
TR:138:603
Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978
TR:138:304
Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
TR:138:416
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435
TR:138:564
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72:47:8717
TR:138:96
Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536
Elements of Random Vector Analysis, Robert M. Stark and Devendra K. Shukla, TN: EM2:Apr 73:434:9641
End Effects in Truncated Semi-Infinite Wedge, Robert Wm. Little and Tommie R. Thompson, EM5:Oct 72:1239:9251
TR:138:484
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695:8986
TR:138:317
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
TR:138:249
Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992
TR:138:325
Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725
TR:138:110
Finite Deflections of Circular Membranes, John Peddieson, Jr., TN: EM3:June 73:634:9765
Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72:1529:9429
TR:138:549
Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495:9802
Finite Element Method for Elastic Plastic Plates, Ted Belytschko and Milan Velebit, EM1:Feb 72:227:8724
TR:138:103
First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816
TR:138:205
Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959
Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
TR:138:176
Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735:9913
Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696
TR:138:68

Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
TR:138:50
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
TR:138:223
Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565
Griffith Fracture Criterion and Concrete, Surendra P. Shah and Fred J. McGarry, EM6:Dec 71:1663:8597
TR:138:45
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836
TR:138:231
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2:Apr 72:357:8804
TR:138:162
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal Eroman Unny and David S. Weaver, TN: EM4:Aug 73:912:9898
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Incremental Response of 3-D Cable Networks, John W. Leonard, TN: EM3:June 73:621:9765
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063
Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, EM6:Dec 73:1181:10210
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
TR:138:577
Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110
TR:138:374
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819
Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3:June 73:445:9775
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247
Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6:Dec 72:1471:9433
TR:138:560
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
TR:138:130
Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymbnd J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961
TR:138:278
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
TR:138:436
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011:10064
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958
TR:138:273
Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1:Feb 73:201:9576
New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677
Nonconvex Structural Optimization Problems, George I.N. Rozvany, TN: EM1:Feb 73:243:9528
Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423:9641
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
TR:138:21
Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71:1397:8417
TR:138:11
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
TR:138:170
Nonlinear Dynamics of Curved Cable Elements, John W. Leonard, TN: EM3:June 73:616:9765
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
TR:138:459
Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041
Optimal Random Vibration Absorbers, Raymond G. Jacquot and David L. Hoppe, TN: EM3:June 73:612:9765
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
TR:138:343
Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
TR:138:59
Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765
Probabilistic Design for Random Fatigue Loads, Paul H. Wirshing and Edward B. Haugen, EM6:Dec 73:1165:10223
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
TR:138:598

Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822
  TR:138:211
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
  TR:138:75
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
  TR:138:538
Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2:Apr 73:249:9648
Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6:Dec 71:1625:8584
  TR:138:38
Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236
Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
  TR:138:256
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520
Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72:1499:9450
  TR:138:602
Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716
  TR:138:89
Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
  TR:138:369
Solution of Flow Under Sluice Gate, Yong K. Chung, EM1:Feb 72:121:8744
  TR:138:152
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
  TR:138:590
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
  TR:138:184
Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533
Stability of Framed Struct , Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
  TR:138:508
Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271:9647
Static Force Analysis of the Human Spine, Ted Belytschko, A. B. Schultz and T. P. Andriacchi, Preprint No.2053, July 73
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
  TR:138:600
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289
  TR:138:532
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
  TR:138:297
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738
  TR:138:144
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6:Dec 72:1417:9446
  TR:138:586
Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4:Aug 73:919:9898
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260
  TR:138:495
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095
  TR:138:355
Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102
  TR:138:362
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
  TR:138:382
Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809
  TR:138:191
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71:1451:8415
  TR:138:3
Torsion of Nonhomogeneous Solid, Manoon Chuaprasert and Mumtaz K. Kassir, EM4:Aug 73:703:9948
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
  TR:138:479
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73:715:9918
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737
  TR:138:138
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431
  TR:138:556
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau Kai Cheung, EM5:Oct 72:1225:9233
  TR:138:443
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445
  TR:138:579
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
  TR:138:404
Unified Approach to the Theory of Plastic Structures, M. A. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
  TR:138:466
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152
  TR:138:425
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561
Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, TN: EM4:Aug 73:907:9898

Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
TR:138:350
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
TR:138:431
Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133
TR:138:395
Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898
Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72:1573:9416
TR:138:543
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72:849:9132
TR:138:389

Engineering Schools
The Nature of Continuing Education, Alfred C. Ingersoll, PP1:Jan 72:113:8660
TR:138:144

Engineering Services
Marketing Professional Engineering Services, Lynn D. Dorsey, CE:Oct 73:99
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Engineering Societies
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
TR:138:500
The Making of a "Pro" -- A Faculty Viewpoint, Dan H. Pletta, Preprint No.2063, Oct 73
The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Milton Alpern, Preprint No.2073, Oct 73
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148

Engineers
American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
TR:138:191
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64
TR:138:98
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523
Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
Dsc: L. Lawrence Lewis, CE:Nov 73:24
TR:138:16
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
TR:138:80
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517

Enteric Bacteria
Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
TR:138:193

Entrainment
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992

Environmental Effects
Architectural Concerns are People Concerns, Frank L. Codella, Preprint No.2066, Oct 73
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
The City Planning Environment and Tall Buildings, Calvin S. Hamilton, Preprint No.2044, July 73
Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
TR:138:182
Consideration of Alternatives in Decisionmaking, Ellis L. Armstrong, Preprint No.1931, Apr 73
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63
Ecological Benefits of Hydraulic Dredging, Thomas M. Turner, Preprint No.1874, Jan 73
Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193:10016
The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
TR:138:352
Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889
The Engineer: Public Policy and Petroleum Pipelines, P. N. Gammelgard, Preprint No.2111, Oct 73
Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, Preprint No.1870, Jan 73
Environmental Aspects of Fossil Fuel Power Plant Solid Waste Disposal, Anthony M. Di Gioia, James E. Niece and Robert P. Hayden, Preprint No.2116, Oct 73
Environmental Aspects of Pipeline Route Selection, Francis J. Stastny, Preprint No.2076, Oct 73
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
TR:138:282
Environmental Considerations Applicable to Petroleum Terminals, Billy E. Smith, Preprint No.2067, Oct 73
Environmental Design and Construction Response on Highway Relocation for a Mountain Reservoir (A Rock Duet), Phillip L. Cole and Sydney Steinborn, Preprint No.1916, Jan 73
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Environmental Impact Studies of Highways, Satoshi Oishi and Charles H. Flavin, Preprint No.2048, July 73
Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55
Dsc: Melvin C. Sueltenfuss, CE:June 72:50; Stanley E. Degler, CE:May 72:48
TR:138:31

Environmentally Sensitive Construction Procedures, Austin H. Emery, Preprint No.2089, Oct 73
Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
  TR:138:422
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, Preprint No.1885, Jan 73
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
  Dsc: Raphael G. Kazmann, CE:Dec 73:22
The Environment and the Law, Remy R.L. de Jong, Preprint No.2071, Oct 73
Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866
Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127
The Highway and Its Neighborhood, Michael Lash, Preprint No.2113, Oct 73
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
  TR:138:593
Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171
The Impact of Urban Planning on Electric Utilities, Alfred R. Golze, Preprint No.1903, Jan 73
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Introduction -- Planning and Design of Tall Buildings: Societal Aspects, Thomas C. Kavanagh, Preprint No.2066, Oct 73
Legal Aspects of Thermal Discharges, Angel J. Martin, Preprint No.2098, Oct 73
National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE: Mar 73:64
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
Noise -- The Subtle Polluter, James D. Collins, Preprint No.2005, Apr 73
The Nuclear Fuel Cycle and Waste Production, Harvey F. Soule, Preprint No.2093, Oct 73
Pattern Discovery in Urban Environment, Tung Au and Andrew K.C. Wong, Preprint No.1993, Apr 73
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Quality System in Construction, Edward A. Abdun-Nur and John E. Rinne, Preprint No.1912, Jan 73
Quantifying the Environmental Impact of Transportation Systems, William L. Smith, Preprint No.2049, July 73
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Research Needs in Environmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
Social Psychological Factors, Density, in Tall Buildings, Roy C. Herrenkohl, Preprint No.2066, Oct 73
Some Problems of Pipeline Route Selection, Frederick E. Culvern, George H. Watson and J. E. Wilson, Preprint No.2057, July 73
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
The Subsurface Environment: Private Property or Public Domain, William R. Walker and William E. Cox, Preprint No.2102, Oct 73
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145
Tocks Island Lake Project -- Panel Discussion, Gerald T. McCarthy, Preprint No.2079, Oct 73
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Water Resources Development: Tocks Island Lake, John A. Burnes, Preprint No.2081, Oct 73
Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153
20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Environmental Engineering
Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
Aesthetics of Tall Buildings, William Henderson, TB: 73:Ia-1-256
Anticipating Urban Environmental Concerns for the Means of Transportation, Lawrence A. Wills, Preprint No.2101, Oct 73
Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
  TR:138:180
Balancing Environmental and Developmental Values, Gary C. Taylor, Preprint No.1910, Jan 73
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
  TR:138:410
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5: Oct 73:639:10043
Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
  TR:138:290
Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73: 411:9945
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489: 9944
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1: Feb 73:53:9518
Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60
Consideration of Alternatives in Decisionmaking, Ellis L. Armstrong, Preprint No.1931, Apr 73
Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72: 869:9434
  TR:138:552
Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771
Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6: Dec 73:773:10220
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051

Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
  TR:138:475
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
  TR:138:474
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
  TR:138:222
Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
  TR:138:381
Engineering For People, Richard R. Harbert, PP3:July 72:387:9058
  TR:138:441
Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, Preprint No.1870, Jan 73
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265:9757
Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971
  TR:138:120
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
  TR:138:282
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1:May 73:205:9738
Environmental Impact Statements Discussed, CE:Feb 73:61
Environmental Impact Studies of Highways, Satoshi Oishi and Charles H. Flavin, Preprint No.2048, July 73
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
Estimation of Estuarine Marsh Productivity, Eugene De Michele, TN: EE3:June 73:397:9764
Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
  TR:138:237
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
  TR:138:478
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
  TR:138:289
Dsc, Focus On Environmental Geology -- A Collection Of Case Histories And Readings From Original Sources, Richard E. Gray, CE:Aug 73:28
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792
Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
  TR:138:406
Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
  TR:138:341
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73:159:9663
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
  Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE: Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
  TR:138:434
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
  TR:138:559
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
  TR:138:472
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
  TR:138:219
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3:July 72:373:9029
  TR:138:370
In Defense of Dubos and Ellul, Kim de Rubertis, CE:Dec 72:51
  TR:138:534
Industrial Waste Charges, James A. Seagraves, EE6:Dec 73:873:10203
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
  TR:138:227
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1:Feb 73:73:9557
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946
Least Cost Design of Water Main System in Series, Arun K. Deb, TN: EE3:June 73:405:9764
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257
  TR:138:525
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916

Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909:10208

Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795

National Environmental Policy Act of 1969 and Engineering Curriculum, Joseph Nemec, Jr., CE:Mar 73:64

New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770

Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, L. T. Fan and L. E. Erickson, EE3:June 73:315:9798

Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200

Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650

Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73:205:9781

Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
  TR:138:228

Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
  TR:138:39

Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666
  TR:138:204

Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984
  TR:138:255

Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3:July 72:363:9051
  TR:138:432

Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517

Quantifying the Environmental Impact of Transportation Systems, William L. Smith, Preprint No.2049, July 73

Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186

Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214

Research Needs in Environmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE6:Dec 73:801:10198

Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543

Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607:10048

Sanitary Landfills: The Latest Thinking, CE:Mar 73:69

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943

Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
  TR:138:244

St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
  TR:138:518

Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209

Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
  TR:138:557

Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797

Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE4:Aug 73:461:9936

Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
  TR:138:54

Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73:17:9540

Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3:June 73:347:9820

Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947

The Trans-Alaska Pipeline Story, E. L. Patton, TE1:Feb 73:139:9573

Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150

Transthetics, Harold P. Hulett, PO1:June 72:103:8989
  TR:138:313

Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941

Trends in Offshore Airports, Richard D. Harza, TE4:Nov 72:985:9343
  TR:138:497

Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368
  TR:138:28

Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778

Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259
  TR:138:550

Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044

Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667
  TR:138:215

Environmental Surveys

Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52
  Dsc: William S. Barrett, CE:Aug 72:64
  TR:138:245

Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949

Environmental Tests

Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961
  TR:138:278

Environments

Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
  TR:138:60

The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
  TR:138:393

Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
TR:138:289
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1
Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257
TR:138:525
Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
TR:138:285
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165
Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
TR:138:380
Dsc, "The Surveillant Science: Remote Sensing Of The Environment", Kam W. Wong, CE:Nov 73:28

Ephemeral Streams
Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73:207:10005

Epicenters
Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327

Epidemiology
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
TR:138:122

Epoxy Coatings
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22

Epoxy Mortar
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
TR:138:405

Epoxy Resins
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
TR:138:405
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514

Equations
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435
TR:138:564

Equations of Motion
Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273:9280
TR:138:520

Equilibrium
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
TR:138:558
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
TR:138:436

Equilibrium Methods
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
TR:138:508
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
TR:138:508
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095
TR:138:355

Erection
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753

Erosion
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
TR:138:520
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, Preprint No.1885, Jan 73
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
TR:138:476
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
TR:138:13
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
TR:138:440
An Overview of Highway Research and Development, Flory J. Tamanini, Preprint No.1988, Apr 73
People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
TR:138:67
Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN:HY3:Mar 73:555:9609
Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
TR:138:585
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426
TR:138:578
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574

Erosion Control
Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77

Errors
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034

Escherichia Coli
Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73:205:9781

Esthetic Properties
Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE:May 72:73
Dsc: Felix Kulka, CE:Aug 72:59
TR:138:269

Esthetics

Aesthetics of Tall Buildings, William Henderson, TB:73:Ia-1-256
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
  TR:138:324
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Balancing Environmental and Developmental Values, Gary C. Taylor, Preprint No.1910, Jan 73
California County Considers Esthetics, Victor Sauer, CE:Nov 73:70
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
  TR:138:418
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
  TR:138:282
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
  TR:138:404
Esthetics -- A Necessary Part of the Engineer's Education, Frederick M. Law, Preprint No.2075, Oct 73
Esthetics in Highway Design, Donald Van Riper, CE:Apr 72:47
  Dsc: Miguel P. Dengo, CE:Aug 72:46
  TR:138:177
Esthetics in Structural Design, David P. Billington, CE:Oct 73:36
Esthetics in Water Towers, John P. Klus, CE:Sept 73:84
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
  TR:138:478
First Vehicular Cable-Stayed Bridge in the U.S., William L. Gute, CE:Nov 73:50
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
  TR:138:167
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Some Esthetic Considerations in Steel Design, Thomas C. Kavanagh, Preprint No.2115, Oct 73
Structural Art and Robert Maillart, David P. Billington, Preprint No.2108, Oct 73
Transthetics, Harold P. Hulett, PO1:June 72:103:8989
  TR:138:313

Estimates

Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816
Estimating Costs of Earthwork via Simulation, Jack H. Willenbrock, CO1:Mar 72:49:8763
  TR:138:208
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
  TR:138:179
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Port Structure Costs, Eugene L. Sembler, Preprint No.2013, Apr 73
Remote Terminal Cost Estimating, Robert C. Volkman and LeRoy T. Boyer, CO1:Mar 72:1:8756
  TR:138:133

Estuaries

Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
  TR:138:142
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342
  TR:138:529
Estimation of Estuarine Marsh Productivity, Eugene De Michele, TN: EE3:June 73:397:9764
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589
Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
  TR:138:155
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
  TR:138:472
Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
  TR:138:29
Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
  TR:138:209
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73:257:9753
Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010
Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
  TR:138:530
Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715
  TR:138:200
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
  TR:138:569
Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
  TR:138:603
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
  TR:138:229
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
  TR:138:482
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
  TR:138:488
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
  TR:138:276
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
  TR:138:435

Ethics

Business Development and the Selection Process, George S. Korbay, EPMT:73:21
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
  TR:138:544

Engineering For People, Richard R. Harbert, PP3: July 72:387:9058
TR:138:441
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Public Dissent and Professional Responsibility, CE: Sept 73:98

Ethnic Groups

Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
TR:138:484

Europe

Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Bridge To Europe, Laurence E. Rohter, CE:Mar 73: 61
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
History and Philosophy of Tall Buildings, Rowland J. Mainstone, TB:73:Ia-1-264
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45

Eutrophication

Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
TR:138:74
Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
TR:138:237
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
TR:138:448
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607: 10048
Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60
TR:138:139
Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2: Apr 72:325:8852
TR:138:348

Evaluation

Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2: Dec 71:149:8568
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63

Evaporation

Alternatives to the Heating and Evaporation of Groundwater While Still Satisfying the U.S. Energy Appetite, William E. Heronemus, Preprint No.1909, Jan 73
Central California Evapotranspiration Frequencies, W. O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
TR:138:251
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483
Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
TR:137:1024
The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171: 9034
TR:138:373
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940
TR:138:236
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
TR:138:570
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332

Evaporation Control

Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353: 9982
Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Evapotranspiration

Central California Evapotranspiration Frequencies, W. O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
TR:138:251
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946
TR:138:294
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229
Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
TR:138:267
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940
TR:138:236
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
TR:138:570
Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772
TR:138:157

Excavation

Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
TR:138:402
Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014
Foundation Failure, Jacob Feld, CE:June 73:89
Dsc: M. D. Morris, CE:Aug 73:20
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
TR:138:493
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271

Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
TR:138:248
Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
TR:138:380

Exchange Reactions
Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703
TR:138:172

Excitation
Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961
TR:138:278
A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323
Stability and Boundedness Via Liapunov's Direct Method, Siegfried M. Holzer, EM5:Oct 72:1273:9280
TR:138:520

Exhaust Systems
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319

Expansion
Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790
TR:138:217
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765

Expansive Clays
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
TR:138:457
Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49
Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42
Dsc: D. Earl Jones, Jr., CE:Dec 73:32
Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017

Expansive Soils
Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49

Experience
Learning and Experience Curves, Marvin Gates and Amerigo Scarpa, CO1:Mar 72:79:8778
TR:138:232

Experimental Data
Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772

Experimentation
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527
Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323
Experimental Study of Frictional Properties of Faults, F. A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Experimental Study of Partially Loaded Plates, Anthony N. Palazotto, Gary Uthenwoldt and Michael Stankosky, Preprint No.2030, Apr 73
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509

Explosions
Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
TR:138:102
Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643

Explosives
Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
TR:138:380

Export
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Extensometers
The Development of a New Borehole Extensometer -- Abstract, Howard G. Spark, RM14:73:756

External Forces
External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661

Fabrication
Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73
Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229
Experiments and Studies on Unstiffened Thin Web Girders, Chingmiin Chern, Preprint No.1932, Apr 73
How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848
Keynote Address at Tall Buildings Conference, Stewart S. Cort, Chairman, Bethlehem Steel Corp., TB:73:C-33
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653
Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817
Steel Beam-To-Column Moment Connections, Joseph S. Huang and Wai F. Chen, Preprint No.1920, Apr 73
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753

Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
TR:138:368

Failure

Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649
Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73: 433:9816
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
TR:138:457
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
TR:138:573
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
TR:138:596
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, Preprint No.1949, Apr 73
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695: 8986
TR:138:317
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709
Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9: Sept 73:687:10019
Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7: July 73:1439:9854
Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74
Fatigue Failure of Nonlinear Multistory Seismic Structure, Iyadurai Kasiraj, ST3:Mar 72:655:8792
TR:138:194
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
Foundation Failure, Jacob Feld, CE:June 73:89
Dsc: M. D. Morris, CE:Aug 73:20
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, C. William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
TR:138:530
An Invariant Second Moment Reliability Format, Niels C. Lind, Preprint No.1921, Apr 73
Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74
Dsc: Michael A. Jordan, CE:Aug 73:24
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
TR:138:130
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
Potentially Active Faults in Dam Foundations, James L. Sherard and Lloyd S. Cluff, Preprint No.1948, Apr 73
Practical Traffic Considerations in Earthquake Country, Haig Ayanian, Preprint No.1942, Apr 73
Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654
Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division, Russell W. Revell, Chmn., HY2:Feb 73: 337:9571
Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, Preprint No.2023, Apr 73
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14: 73:329
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
Stability of Hyperboloidal Shells, Daniel R. Veronda and Victor I. Weingarten, Preprint No.2112, Oct 73
Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225
Structural Failures, Jack R. Janney, STF:73:11
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
Dsc: Richard C. Elstner, CE:Apr 73:81
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72: 849:9132
TR:138:389

Fasteners

Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437

Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
TR:138:233
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153

Fatigue (Materials)
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781
Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725
Fatigue and Fracture of Bridge Steels, Richard Roberts and George Irwin, Preprint No.1990, Apr 73
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721
Fatigue Damage Factor in Structural Design, Jhy-Pyng Tang and James T.P. Yao, ST1:Jan 72:125:8647
TR:138:126
Fatigue Damage in Seismic Steel Members, R. Srinivasan and William H. Munse, TB:73:II-18-814
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62
Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855
TR:138:225
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
TR:138:205
Fatigue Reliability and Design, James T.P. Yao, Preprint No.2023, Apr 73
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
TR:138:576
List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
TR:138:177
Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698
TR:138:25
The 747 Fatigue and Fail Safe Testing, Max M. Spencer, Preprint No.1992, Apr 73

Fatigue Limit
Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808
Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855
TR:138:225

Fatigue Tests
Punching Shear Characteristics of RHS Joints, Narsing M. Patel, William J. Graff and Ardis H. White, Preprint No.1963, Apr 73
Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121
The 747 Fatigue and Fail Safe Testing, Max M. Spencer, Preprint No.1992, Apr 73

Faults (Geology)
Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, Preprint No.1949, Apr 73
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Experimental Study of Frictional Properties of Faults, F. A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Potentially Active Faults in Dam Foundations, James L. Sherard and Lloyd S. Cluff, Preprint No.1948, Apr 73
Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173
TR:138:379

Feasibility
Impact on Industries of Air Pollution Control Legislation -- A Panel Discussion, David M. Anderson, Preprint No.2109, Oct 73
The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Director, UNSANS:73:

Federal Agencies
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
TR:138:381
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
TR:138:292
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
TR:138:289

Federal Budgets
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591

Federal Government
The Aftermath of Article Three, William H. Wisely, CE:Jan 72:37
TR:138:1
Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
Dsc: William J. Bauer, CE:Aug 72:46; Sam G. Baladi, CE:Oct 72:66
TR:138:118

Federal-State Cooperation
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2:May 73:405:9745
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409

How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73: 159:9663
Legal Aspects of Thermal Discharges, Angel J. Martin, Preprint No.2098, Oct 73
Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
 TR:138:408
Planning: Integrated Grant Administration Program, Roland M. Lewis, Preprint No.2052, July 73
Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52
State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323: 9734

Fees
Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
The Role of the Engineer in Systems Building, Tung Y. Lin, Preprint No.2012, Apr 73

Females
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
 Dsc: Sandra Johnson, CE:July 73:25; Della Laura, CE:July 73:25; Amos Roos, CE:July 73:26; Dorothy M.N. McClellan, CE:July 73:26; Della Laura, CE:Oct 73:32

Fiber Composites
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72: 849:9132
 TR:138:389

Fiberglass Reinforced Plastics
Behavior of Fiber Glass Reinforced Concrete Beams, Edward G. Nawy, Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353
 TR:137:1011
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72

Fibers
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
 TR:138:130
Optimal Fiber-Reinforced Plate Corners, Robert E. Melchers, TN: ST7:July 73:1692:9828

Field Data
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
 TR:138:223

Field Density
Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
 TR:138:175

Field Investigations
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127

Field Tests
Behavior of a Curved Steel Box Beam Bridge, Robert A. Greig and William L. Armstrong, Preprint No.2017, Apr 73
Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195: 8741
 TR:138:197
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72: 2329:9325
 TR:138:521
Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
 TR:138:294
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
 TR:138:429
Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589
 TR:138:112
Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129: 9377
 TR:138:553
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3
A Field Laboratory for Stratified Flow Studies, P. C. Chang and A. Lin, ISSF:Aug 72:501
Guide for the Design of Aluminum Transmission Towers, by the Task Committee on Lightweight Alloys of the Committee on Metals of the Structural Division, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
 TR:138:596
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904
 TR:138:293
Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES: 72:I-1105
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435
Long Term Observations on Highway Bridges, Charles F. Galambos, Preprint No.1960, Apr 73
Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165: 8631
 TR:138:70
Model Versus Field Data on Thermal Plumes from Power Stations, L. C. Neale and George E. Hecker, ISSF:Aug 72:399
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959
 TR:138:61
Research Review -- North and South America, State-of-Art Report 3, W. A. Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
The South Dakota Weather Modification Program, Merlin C. Williams, Preprint No.1883, Jan 73
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
 TR:138:146

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
TR:138:532
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM5:May 72:481:8917
TR:138:302
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM6:June 72:557:8944
TR:138:309
"Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM7:July 72:749:9070
TR:138:403
Subsurface Investigations for Design and Construction of Foundations of Buildings: Appendices A and B, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM8:Aug 72:771:9103
TR:138:413
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73: 335:9627
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509
Vibrations of Embedded Footings and Structures, Milos Novak, Preprint No.2029, Apr 73
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219
Water Management by Shallow Drainage, Royal H. Brooks and John C. Nibler, Preprint No.1868, Jan 73
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HY8:Aug 73:131

Fills
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939: 10170
Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840
TR:138:253
Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
TR:138:487
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
TR:138:480
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Films
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
TR:138:502
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Filter Materials
Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596
TR:138:128

Filters
Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
TR:138:143
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72: 937:9401
TR:138:498
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
TR:138:218
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
TR:138:384
Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596
TR:138:128
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
TR:138:184
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, Preprint No.2018, Apr 73

Filter Tests
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534

Filtration
Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
TR:138:143
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819
TR:138:296
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72: 937:9401
TR:138:498
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
TR:138:384
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
TR:138:122
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
TR:138:327
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543: 9422
TR:138:594

Finance
State of the Society, Oscar S. Bray, PP4:Oct 72:481: 9291
TR:138:602

Financial Analysis
Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT: 73:71

Financial Management
Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66
TR:138:48

Financing

- Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
- Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
  - TR:138:46
- Financing Airport Development, James H. Kerley, Jr., ASC73:Mar 73:141
- Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
  - TR:138:154
- Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393: 9746
- Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
- New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
  - TR:138:199
- Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
- Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883
- Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
- Project Selection Based on Benefits and Costs, Michael Raymond Toakley and John F. Brotchie, CO2:Sept 72:149:9163
  - TR:138:308
- Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52
- "Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
  - Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE: Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73: 32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34
- Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991
- Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31

Finite Difference Method

- Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
  - TR:138:146
- Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530
- Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549

Finite Differences

- Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818
- Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5: Oct 72:1115:9247
  - TR:138:471
- Dead Load Design Of Curved Bridges, Conrad P. Heins, Jr. and E. L. Murphy, Preprint No.1924, Apr 73
- Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
  - TR:138:559
- Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72: 1087:9260
  - TR:138:495

Finite Difference Theory

- High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
- Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045
  - TR:138:1

Finite Element Method

- Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10: Oct 73:783:10097
- Analysis of Coupled Heat and Moisture Diffusion By Finite Elements, Thomas L. Cost and T. D. Loftin, Preprint No.1954, Apr 73
- Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339
- Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607
- Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, Samuel S.M. Chan and Grant L. Anderson, RM14:73:757
- Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73: 655:9653
- Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
  - TR:138:274
- Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177
- Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE2:May 73:255:9721
- Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206
- Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
- Elastic-Plastic, Large Deformation Response of Soil to Footing Loads, Hugh L. Davidson and Wai F. Chen, Preprint No.2070, Oct 73
- Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495: 9802
- Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393
- Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
- Finite Element Method Accuracy for Wave Propagation Problems, Roger L. Kuhlemeyer and John Lysmer, TN: SM5:May 73:421:9703
- Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784
  - TR:138:174
- Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789
- Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
  - TR:138:372
- Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, Preprint No.2077, Oct 73
- Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
  - TR:138:559
- Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226
- Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247
- Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739
- Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
  - TR:138:228
- Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845
  - TR:138:218
- Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73: 603:9912

Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
TR:138:598
Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
TR:138:288
Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, W. Karwoski, Raghbir S. Sandhu and R. Singh, RM14:73:752
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
TR:138:511
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
TR:138:363
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Structural Animation, John E. Crawford, Preprint No.2087, Oct 73
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150
Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES:73:III-265

Finite Elements
Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7:July 72:1493:9033
TR:138:344
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
TR:138:319
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
TR:138:315
Constructional Deformations in Rockfill Dam, Arthur Penman and Andrew Charles, SM2:Feb 73:139:9560
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
TR:138:572
Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
TR:138:141
Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
TR:138:461
Finite Element Method for Elastic Plastic Plates, Ted Belytschko and Milan Velebit, EM1:Feb 72:227:8724
TR:138:103
Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Hermann, HY6:June 73:959:9787
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
TR:138:223
Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9:Sept 72:1943:9207
TR:138:465
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
TR:138:185
Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
TR:138:170
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
TR:138:515
Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
TR:138:590
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau Kai Cheung, EM5:Oct 72:1225:9233
TR:138:443
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152
TR:138:425
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
TR:138:431

Finland
Esthetics in Water Towers, John P. Klus, CE:Sept 73:84

Fire Alarm Systems
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB:73:Ib-8-523
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541

Fire Control
Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Fire Damage
Comments on Fire, M. Galbreath, J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721
Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723
Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688
Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719

Fire Extinguishing Agents
Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681

Fire Fighting
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
TR:138:149
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681

Fire Prevention
CIL House, M. I. Gilmore, TB:73:C-P-284
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733

A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728

Fire Protection
Dsc, A Complete Guide To Fire And Buildings, James C. Spence, CE:July 73:30
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
  TR:138:487
Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
  TR:138:97
Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Steel Column Buckling Under Thermal Gradients, Charles G. Culver, ST8:Aug 72:1853:9150
  TR:138:414
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681

Fire Resistance
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
  TR:138:97
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Fires
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
CIL House, M. I. Gilmore, TB:73:C-P-284
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1
Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151
Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475
Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Fire Safety
Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463
Dsc, Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585
Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677
Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692
ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
  Dsc: Felix Kulka, CE:Oct 72:76
  TR:138:275
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541
System Design for Fire Safety, State-of-Art Report 5A, Kunio Kawagoe, TB:73:Ib-8-569

Fish
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
  TR:138:475

Fish and Wildlife
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73:245:9665

Fisheries
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

Fishkill
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
  TR:138:569

Fish Ladders
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

Fish Management
Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB:Aug 73:21

Fish Passages
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

Fish Screens
Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31

Fixed-Bed Models
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122

Fixed Costs
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Fixed Structures
Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72: 1161:8922
  TR:138:280

Fjords
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

Flanges
Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513
Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828

Flat Plates
Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Flexibility
Turbine Generator Vibrations as Induced into a Barge Mounted Nuclear Power Plant, Robert J. McCaffery and Charles M. Johnson, Preprint No.1978, Apr 73

Flexibility Methods
Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108

Flexible Pavements
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695
  TR:138:16
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858
  TR:138:107
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
  Dsc: A. G. Delong, CE:June 73:24
Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Flexural Strength
Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623
Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724
Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73: 1761:9934
Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473
Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
  TR:138:310
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577
Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298
Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463

Flocculants
Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702
  TR:138:164

Flocculating
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
  TR:138:91
Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702
  TR:138:164
Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73: 17:9540

Flocculation
Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702
  TR:138:164

Flood Control
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
  Dsc: George C. Govatos, CE:Mar 73:75
  TR:138:400
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
  TR:138:188
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367: 10227
Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475: 8761
  TR:138:178
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60
Flood Channel Doubles as Golf Course, Clifford C. Hood, CE:May 72:49
  Dsc: Nirmalendu Maitra, CE:Sept 72:61
  TR:138:238
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
  TR:138:154
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Flood Proofing Regulations for Building Codes, Armando C. Lardieri, Preprint No.1915, Jan 73
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3: July 72:373:9029
  TR:138:370
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, Preprint No.1869, Jan 73
Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304
  TR:138:532
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
  TR:138:440
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3: July 72:363:9051
  TR:138:432
Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42
  Dsc: John A. Owen, CE:Nov 72:56
  TR:138:360
Red River Floodway and Related Flood Control Works, Thomas E. Weber, Preprint No.1966, Apr 73
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1

Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
TR:138:314
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Surveys Required to Design Nonstructural Measures, L. Douglas James, Preprint No.1881, Jan 73
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062
Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
Unique Flood Control Problems and Solutions, Fred R. Cline and Edward Koehm, Preprint No.1945, Apr 73

Flood Forecasting
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
TR:138:517

Flood Frequency
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
TR:138:517
Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639
TR:138:100

Flood Hydrographs
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
TR:138:506
Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639
TR:138:100

Flooding
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71: 321:8545
TR:138:149

Flood Peaks
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie-Ling Chiang, HYB:Aug 73:371
Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73: 207:10005

Flood Plain Regulation
Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, Preprint No.1869, Jan 73
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135

Flood Plains
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105
Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Flood Proofing Regulations for Building Codes, Armando C. Lardieri, Preprint No.1915, Jan 73
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506

Flood Plain Studies
Surveys Required to Design Nonstructural Measures, L. Douglas James, Preprint No.1881, Jan 73

Flood Plain Zoning
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062

Floodproofing
Surveys Required to Design Nonstructural Measures, L. Douglas James, Preprint No.1881, Jan 73

Flood Protection
Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42
Dsc: John A. Owen, CE:Nov 72:56
TR:138:360
Surveys Required to Design Nonstructural Measures, L. Douglas James, Preprint No.1881, Jan 73

Flood Routing
Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499

Floods
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Dsc: George C. Govatos, CE:Mar 73:75
TR:138:400
Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979
TR:138:370
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie-Ling Chiang, HYB:Aug 73:371
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73: 2195:10233
Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11: Nov 72:1969:9330
TR:138:537
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383
TR:138:23
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
TR:138:517
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, Preprint No.1869, Jan 73
Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73: 383
Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42
Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42

Dsc: John A. Owen, CE:Nov 72:56
TR:138:360

Red River Floodway and Related Flood Control Works, Thomas E. Weber, Preprint No.1966, Apr 73
Surveys Required to Design Nonstructural Measures, L. Douglas James, Preprint No.1881, Jan 73
Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639
TR:138:100
Unique Flood Control Problems and Solutions, Fred R. Cline and Edward Koehm, Preprint No.1945, Apr 73
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Flood Waves
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233

Floodways
The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60

Floors
Chemical Resistant Resurfacing Mortars for Industrial Floors and Ramps, Dallas Grenley and Lou Kuhlmann, Preprint No.2092, Oct 73
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72:
TR:138:387
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Experiments and Studies on Unstiffened Thin Web Girders, Chingmiin Chern, Preprint No.1932, Apr 73
Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52
TR:138:186
Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786
TR:138:181
Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703
Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
TR:138:526
Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt and James R. Goodman, Preprint No.1953, Apr 73
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667

Florida
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
TR:138:475
Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
TR:138:237
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807

Flotation
Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718

Flow
Recession Flow in Surface Irrigation, I-pai Wu, IR1:Mar 72:77:8764
TR:138:116
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
TR:138:435

Flow Characteristics
General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205
Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203
Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9:Sept 73:1433:10026
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and B. S. Pani, HY7:July 72:1101:9009
TR:138:350

Flow Control
Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
TR:138:301
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241

Flow Distribution
Distribution Channels with Multiple Outlets, William E. Hart and John Borelli, IR2:June 72:267:8976
TR:138:356
Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121
Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808
TR:138:271
Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639
TR:138:100

Flow Measurement
Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427
TR:138:582
Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515
TR:138:42
Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987
TR:138:12

Flowmeters
Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987
TR:138:12

Flow Nets
Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71:1573:8528
TR:138:84

Flow Patterns

Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191
TR:138:470

Flow Profiles

Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117
TR:138:369
Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE:Dec 73:49

Flow Rate

Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8:Aug 72:1367:9088
TR:138:401
Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9:Sept 72:1625:9184
TR:138:459

Flow Resistance

Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
TR:138:149
Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748
Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal Eroman Unny, HY5:May 73:713:9723
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836
TR:138:231
Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773
TR:138:196
Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11:Nov 72:2015:9370
TR:138:556
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664

Flow Visualization

Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897:10119

Fluid Flow

Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012
TR:138:354
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
TR:138:563
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, Preprint No.1986, Apr 73
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
The Development of an Instrument Pig, B. VerNooy, Preprint No.2045, July 73
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9729
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71:1269:8367
TR:138:7
Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789
Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649
TR:138:108
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
TR:138:163
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Hermann, HY6:June 73:959:9787
Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
TR:138:50
General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836
TR:138:231
Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72:1157:9031
TR:138:366
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
TR:138:559
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110
TR:138:374
Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528
Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73:583:9865
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
TR:138:530

One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641

Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
TR:138:301

Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503

Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203

Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1: Jan 72:1:8627
TR:138:84

Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193

Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150

Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061
TR:138:386

Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and B. S. Pani, HY7:July 72:1101:9009
TR:138:350

Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Mill, HY7:July 73:1009:9847

Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155

Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283

Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72: 153:8651
TR:138:111

Fluidized Bed Processing

Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
TR:138:143

Fluid Mechanics

Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003: 10160

Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249

Fluid Mechanics Teaching and Research: A View from a Dean's Office, Hunter Rouse, HY5:May 72: 775:8899
TR:138:287

Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898
TR:138:281

Flumes

Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
TR:138:241

Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
TR:138:601

Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503

Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, Preprint No.2106, Oct 73

Fluvial Hydraulics

Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73: 323:9687

Flux Density

Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675

Fly Ash

Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1: May 73:217:9741

Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840
TR:138:253

Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
TR:138:175

Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443
TR:138:576

Foam

Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73

Focal Length

Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
TR:138:550

Fog Dispersion

Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Folded Plates

Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73: 799:9715

Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71: 2459:8434
TR:138:20

Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013
TR:138:315

Experimental Study of Partially Loaded Plates, Anthony N. Palazotto, Gary Uthenwoldt and Michael Stankosky, Preprint No.2030, Apr 73

Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992
TR:138:325

Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913
TR:138:261

Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165: 8631
TR:138:70

Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043: 9772

Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249
TR:138:483

Footings

Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497

Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1: 9496

Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
TR:138:561
Elastic-Plastic, Large Deformation Response of Soil to Footing Loads, Hugh L. Davidson and Wai F. Chen, Preprint No.2070, Oct 73
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092
Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716
TR:138:89
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73
TR:138:110
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41
Vibrations of Embedded Footings and Structures, Milos Novak, Preprint No.2029, Apr 73

Force
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Forced Vibration
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679:8993
TR:138:330
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431
TR:138:556

Forecasting
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
TR:138:234
Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
TR:138:22
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
TR:138:307
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589
TR:138:112
Estimation of General Aviation Air Traffic, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, Preprint No.2041, July 73
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
TR:138:162
Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, EM6:Dec 73:1181:10210
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981
Oil for the East Coast -- What, Where and Why, Edward Symonds, Preprint No.2078, Oct 73
Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
TR:138:450
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
TR:138:223
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214
Seismic Response Predictions of Bridge Pier, Robin Shepherd and Richard E. McConnel, EM3:June 72:609:8949
TR:138:256
Soil-Structure Interaction -- Opening Remarks, Ralph B. Peck, PES:73:III-249
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
TR:138:547
Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
TR:138:557
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
TR:138:444
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4:Nov 72:799:9362
TR:138:535
Use of Digital Radar Data in Operational Hydrology, Michael D. Hudlow, Preprint No.1911, Jan 73
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
TR:138:407

Foreign Aid
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084

Foreign Engineering
Bridge To Europe, Laurence E. Rohter, CE:Mar 73:61
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
Dsc: Dennis C. Cook, CE:Oct 72:63
TR:138:339
Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523

Foreign Projects
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
TR:138:555

Forest Land
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
TR:138:435

Forest Management
Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748

Forests
Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77

Formations

Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Formwork (Construction)

Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814

Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62

Falsework Failures; Can They be Prevented?, Arthur L. Elliott, CE:Oct 73:74

Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096

Fossil Fuels

Environmental Aspects of Fossil Fuel Power Plant Solid Waste Disposal, Anthony M. Di Gioia, James E. Niece and Robert P. Hayden, Preprint No.2116, Oct 73

Hydraulic Model Study for Big Stone Plant -- Unit 1 Cooling Pond Baffle, Fred H. Wend and James F. Ruff, Preprint No.2094, Oct 73

Foundation Investigations

Beneficiation of Auburn Dam Foundation, Gerald F. Bowles and Glenn S. Tarbox, Preprint No.1878, Jan 73

Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
TR:138:207

Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM5:May 72:481:8917
TR:138:302

Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM6:June 72:557:8944
TR:138:309

"Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM7:July 72:749:9070
TR:138:403

Subsurface Investigations for Design and Construction of Foundations of Buildings: Appendices A and B, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM8:Aug 72:771:9103
TR:138:413

Foundations

Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
TR:138:491

Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE1:Feb 72:37:8699
TR:138:36

Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480

Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445

Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
TR:138:561

Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
TR:138:125

Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
TR:138:243

Boundary Effects on Stability of Structures, A. S. Chawla, HY9:Sept 72:1557:9199
TR:138:481

Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69

Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175

Construction of Deep Foundations, William F. Swiger, PES:73:III-207

Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661

Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
TR:138:582

Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859

Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
TR:138:489

Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925

Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821

Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111

Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211

Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853

Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323

Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73

Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131

Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838

Distribution of Wind Loads to Soils, State-of-Art Report 2, S. V. De Simone, TB:73:Ia-11-881

Dsc, Driller Pier Foundations, Joseph M. DeSalvo, CE:Mar 73:40

Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999

Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026
TR:138:338

Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621

Effects of Foundations on Adjacent Structures, State-of-Art Report 3, E. Horvat and Cornelius van der Veen, TB:73:Ia-11-905

Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066
TR:138:391

Embankments on Soft Ground, Laurits Bjerrum, PES:73:II-1

Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49

End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3:Mar 72:541:8794
TR:138:216

Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, Fred C. Teitgen and David R. Fiedler, CE:Nov 73:82

Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014

Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
TR:138:446

Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957:10161

Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127

Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095

First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
TR:138:499

Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303
TR:138:494

Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
TR:138:490

Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834

Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026

Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849

Foundation Failure, Jacob Feld, CE:June 73:89
Dsc: M. D. Morris, CE:Aug 73:20

Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
TR:138:492

Foundation Problems for Large Earthquakes, James D. Roberts and William F. Jones, Preprint No.1943, Apr 73

Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
TR:138:493

Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051

Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715

Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
TR:138:493

Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497
TR:138:73

High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985

The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41

Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
TR:138:487

Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
TR:138:43

The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
TR:138:337

Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72:273:9242
TR:138:419

Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815

Landslides and Foundation Design, Hsai-Yang S. Fang, TB:73:Ia-11-1012

Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
TR:138:439

Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903

Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603

Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579

Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231

Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201:9188
TR:138:475

Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844

Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579:8947
TR:138:321

Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Potentially Active Faults in Dam Foundations, James L. Sherard and Lloyd S. Cluff, Preprint No.1948, Apr 73

Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
Dsc: Murray I. Brill, CE:Sept 72:61; James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE:Dec 72:58
TR:138:284

Prefabricated Highways, William Zuk, TE2:May 72:387:8895
TR:138:204

Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711

Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092

The Role of Contract and Specifications in Foundations, Max E. Greenberg, Preprint No.2074, Oct 73

Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
TR:138:207

Shallow Foundations, Douglas C. Moorhouse, PES:73:II-71

Shallow Foundations -- Panel Presentation, Carl B. Crawford, PES:73:III-165

Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716
TR:138:89

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
TR:138:481

Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990

Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967

Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008

Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB: 73:Ia-3-537

Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
TR:138:554

Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM5:May 72:481:8917
TR:138:302

Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM6:June 72:557:8944
TR:138:309

"Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM7:July 72:749:9070
TR:138:403

Subsurface Investigations for Design and Construction of Foundations of Buildings: Appendices A and B, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM8:Aug 72:771:9103
TR:138:413

Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
TR:138:43

Tilting Foundations, Gerd F. Weissmann, SM1:Jan 72:49:8671
TR:138:152

Treated Wood Foundations for Houses, CE:Oct 73:41

Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72:1099:9272
TR:138:491

Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40
TR:138:123

Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189

Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72:1291:9412
TR:138:568

Vibrations of Machine Foundations and Soil Dynamics Considerations, Dhirendra S. Saxena, Preprint No.1991, Apr 73

Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133
TR:138:395

Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898

Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
TR:138:417

Fourier Analysis

Fourier Analysis of Simulated and Recorded EMG, Gyan C. Agarwal and Gerald L. Gottlieb, Preprint No.2035, July 73

Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644
TR:138:113

Fourier Series

Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837:10031

Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
TR:138:436

Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
TR:138:526

Fourier Transformation

Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
TR:138:218

Fracture Properties

What Designers Should Know About Fracture Toughness, Arthur L. Elliott, Preprint No.1928, Apr 73

Fractures

Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48

Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725

Fatigue and Fracture of Bridge Steels, Richard Roberts and George Irwin, Preprint No.1990, Apr 73

Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721

Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357

Fractures (Materials)

An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77

Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781

Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818

Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62

Griffith Fracture Criterion and Concrete, Surendra P. Shah and Fred J. McGarry, EM6:Dec 71:1663:8597
TR:138:45

Lamellar Tearing of Welded Steel, CE:Dec 73:34

Fragmentation

A Study on a New Concept of Thermal Hard Rock Crushing, K. Thirumalai and J. B. Cheung, RM14:73:527

Fragmented Materials

Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249
TR:138:483

Framed Structures

Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
TR:138:161

Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157

Computer Simulation of Distorted Structural Frameworks, Henry N. Christiansen, Preprint No.2080, Oct 73

Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661

Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
TR:137:969

Interactive Graphics: Portability and Adaptability, Robert H. Ewald, Larry J. Feeser and Robert L. Schiffman, Preprint No.2082, Oct 73

Stability, Theme Report, George Winter, TB:73:II-16-409

Frames

Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233:8643
TR:138:109
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010
TR:138:306
Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
TR:138:451
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105:9281
TR:138:527
Cracking and Crack Control, Karl Kordina, TB:73:III-24-721
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
TR:138:499
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470
Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7: July 72:1475:9038
TR:138:352
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6: Dec 72:1547:9435
TR:138:564
Elastic-Plastic Instability of Multi-Story Frames, Sriralumu Vinnakota, TB:73:II-16-568
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Equilibrium Branching Due to Flexural Softening, Giulio Maier, Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343
Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968
Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
Half Frame Method, Bernardo J. Deschapelles, TB: 73:II-16-591
Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395
Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247
Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
TR:138:504
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Multi-Story Reinforced Concrete Frame Models, Asadul H. Chowdhury, Richard N. White and Norman R. Scott, Preprint No.2002, Apr 73
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10: Oct 73:2011:10091
Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73: II-14-201
Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937
TR:138:288
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311
Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72: 1769:9148
TR:138:409
Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485
Practical Design for Seismic Loads in Wood Roof Framing, Warren H. Bower, Preprint No.1969, Apr 73
Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906
Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318
Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, Preprint No.1951, Apr 73
Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, Preprint No.1976, Apr 73
Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377
Stability of Framed Struct , Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Stiffening Effect of Light Cladding, State-of-Art Report 4A, E. R. Bryan and J. M. Davies, TB:73: II-17-643
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72: 327:8675
TR:138:139

Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB:73:Ia-3-537
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
TR:138:554
Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133
Tangent Stiffness in Plane Frames, Cenap Oran, ST6: June 73:973:9810
Tangent Stiffness in Space Frames, Cenap Oran, ST6: June 73:987:9813
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
TR:138:78
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623
The Wainwright Building, John D. Randall, TB:73:C-P-352
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

France
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
TR:138:300
High Rise Construction in France, State-of-Art Report 4B, Jean A. Roret, TB:73:Ia-4-741
Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Tour Apogee, Skidmore, Owings & Merrill, TB:73: C-P-486

Free Surfaces
Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607

Freeways
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260
Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
TR:138:285

Freeze-Thaw Cycle
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603: 9191
TR:138:470

Freezing
Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
  Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE: May 73:58
TR:138:221

Freight Terminals
Consolidation for Urban Goods Movements: Air Cargo on the Ground as a Case Study, Richard de Neufville and Nigel H.M. Wilson, Preprint No.2061, July 73
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353
Seismic Design of LASH Terminal, Robert T. Lawson and Henry J. Degenkolb, Preprint No.2007, Apr 73
Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047
TR:138:554

Frequencies
Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN: PO2:Nov 73:441:10115
Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
TR:138:350

Frequency
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
TR:138:159
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
TR:138:184

Frequency Distribution
Central California Evapotranspiration Frequencies, W. O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
TR:138:251
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946
TR:138:294
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940
TR:138:236

Fresh Water
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Friction
Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497
Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72: 787:8890
TR:138:273
Experimental Study of Frictional Properties of Faults, F. A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863
Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
TR:138:13

Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786
TR:137:856

Friction Coefficient (Hydraulic)
Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158

Friction Coefficient (Mechanical)
Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Dsc: A. G. Delong, CE:June 73:24
Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73: 2123:10055

Friction Factor
Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal Eroman Unny, HY5:May 73:713:9723
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912
TR:138:296

Friction Piles
Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957: 10161
Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63
TR:138:203

Fringe Benefits
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Retirement Starts Now, Ernest W. Fair, CE:Nov 73: 77
Superior Pension Plan Helps Attract Employees, Jack L. Schoustra and Richard S. Summerhays, CE:Jan 73:58
Dsc: John H. Meursinge, CE:Apr 73:77

Frost Action
Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840
TR:138:253
Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77
TR:138:215

Frost Heave
Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009
Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77
TR:138:215

Frost Protection
Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Froude Number
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680

Frozen Soils
In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72: 899:9202
TR:138:464

Fuels
City of St. Louis-Union Electric Company Process Solid Waste as a Boiler Fuel, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, Preprint No.2114, Oct 73

Functions (Mathematics)
Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
TR:138:223

Fungi
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489: 9944

Furrow Irrigation
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

Gabions
Unique Flood Control Problems and Solutions, Fred R. Cline and Edward Koehm, Preprint No.1945, Apr 73

Galvanizing
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
TR:138:576

Gaming Models
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
TR:138:476

Garages
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728

Gases
Sanitary Landfills: The Latest Thinking, CE:Mar 73: 69

Gas Flow
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792

Gas Pipelines
Gas Line Response to Earthquakes, John D. McNorgan, Preprint No.1975, Apr 73
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148

Gas Production
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047

Gas Supply
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792

Gates
High Head Gates and Valves in the United States, by the Task Committee on Outlet works of the Committee on Hydraulic Structures of the Hydraulic Division, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
  TR:138:301
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
  TR:138:387
Solution of Flow Under Sluice Gate, Yong K. Chung, EM1:Feb 72:121:8744
  TR:138:152
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
  TR:138:146
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
  TR:138:320

Geodesy
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72: 167:9361
  TR:138:595
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63: 10030
Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007

Geodetic Surveys
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
  TR:138:604
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
  TR:138:121

Geological Surveys
Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Geologic Investigations
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
  TR:138:494

Geology
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
  TR:138:489
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
  TR:138:499
Dsc, Focus On Environmental Geology -- A Collection Of Case Histories And Readings From Original Sources, Richard E. Gray, CE:Aug 73:28
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
  TR:138:492
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747
Task Committee Report on Geological Conditions Affecting Pipeline Location, Clarence O. Walker, Preprint No.2036, July 73
Treatment of High Embankment Dam Foundations, Fred C. Walker and R. W. Bock, SM10:Oct 72: 1099:9272
  TR:138:491

Geometric Forms
Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914

Geometric Shapes
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Geometry
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
  TR:138:202
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Geophysical Prospecting
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904
  TR:138:293

Geophysical Surveys
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89

Georgia
Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375: 10013

Geostrophic Wind
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483

Geotechnical Engineering
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89

Geothermal Powerplants
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127
Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136
Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Geothermal Prospecting
Geothermal Resource Investigations, Lloyd R. Porter, Preprint No.1875, Jan 73

Geothermal Studies
Geothermal Resource Investigations, Lloyd R. Porter, Preprint No.1875, Jan 73

Germany
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
  Dsc: Joseph R. Passonneau, CE:Sept 72:61
  TR:138:319
Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807

Geysers
Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Ghana

Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
TR:138:545

Girders

Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371
Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108
Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258
TR:138:495
Curved I-Girders with Cross Sectional Deformation, John D. Mozer and Tek Sreang Chhim, Preprint No.1922, Apr 73
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631
Experiments and Studies on Unstiffened Thin Web Girders, Chingmiin Chern, Preprint No.1932, Apr 73
Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7: July 73:1702:9828
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
Survey of Curved Girder Bridges, Subcommittee on Curved Girders, Roger L. Brockenbrough, Chmn., CE:Feb 73:54
Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8048
TR:138:5

Glass Fibers

Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
TR:138:515

Glued Joints

FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
TR:138:169

Golf Courses

Flood Channel Doubles as Golf Course, Clifford C. Hood, CE:May 72:49
Dsc: Nirmalendu Maitra, CE:Sept 72:61
TR:138:238

Government

The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73
HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035
TR:138:246
Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
TR:138:82
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
TR:138:227
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Dsc: G. A. Hammond, CE:June 73:22; Darrell J. Turner, CE:June 73:22; T. P. Limber, CE:Aug 73:40
Planning: Integrated Grant Administration Program, Roland M. Lewis, Preprint No.2052, July 73
Public Policy: Who Speaks for the Engineer?, Augustine J. Fredrich, Preprint No.2051, July 73
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
TR:138:46
Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555
Urban Water Resources -- The Politics of Management, Francis B. Francois, Preprint No.1876, Jan 73
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365: 9879
Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667
TR:138:215

Government Policies

Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563: 9287
TR:138:599
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
TR:138:510

Gradients

Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793

Grading (Earthwork)

Esthetics in Highway Design, Donald Van Riper, CE: Apr 72:47
Dsc: Miguel P. Dengo, CE:Aug 72:46
TR:138:177

Graduate Study

ASCE and Graduate Students: Faculty Advisor's Opinion, Keith C. Crandall, PP3:July 73:307:9882

Grain Sizes

Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
TR:138:160

Granular Materials

Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
TR:138:445
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271

Graphic Methods

Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31
Dsc: Morton B. Lipetz, CE:June 73:22
Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
TR:137:1040

Graphs (Charts)

Computer Simulation of Distorted Structural Frameworks, Henry N. Christiansen, Preprint No.2080, Oct 73
Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75
TR:138:114
Interactive Graphics: Portability and Adaptability, Robert H. Ewald, Larry J. Feeser and Robert L. Schiffman, Preprint No.2082, Oct 73
Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
TR:138:312

The State of the Art of Computer Graphics -- Applications in Structural Engineering, Task Committee on Computer Graphics of the Committee on Electronic Computation, Structural Division, Robert D. Logcher, Chmn., Preprint No.2024, Apr 73
Structural Animation, John E. Crawford, Preprint No.2087, Oct 73

Gravel
Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31
Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
TR:138:545
Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71:1165:8279
TR:137:1023
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
TR:138:240
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293
Vibrations of Machine Foundations and Soil Dynamics Considerations, Dhirendra S. Saxena, Preprint No.1991, Apr 73

Graving Docks
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
Very Large Graving Docks, Jay J. Hassani, Preprint No.1938, Apr 73
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Gravity
Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565

Gravity Waves
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209:8869
TR:138:265

Great Britain
British Column Design, Allan R. Gent, TB:73:II-16-545
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767

Greece
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502

Greens Function
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236

Grid Systems
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679:8993
TR:138:330
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837:10031
Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
TR:137:969
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049

Grillage Footings
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
TR:138:538
Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40
TR:138:123

Grooving
Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Dsc: A. G. Delong, CE:June 73:24

Ground Vehicles
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
TR:138:469

Ground Water
Alternatives to the Heating and Evaporation of Groundwater While Still Satisfying the U.S. Energy Appetite, William E. Heronemus, Preprint No.1909, Jan 73
Analysis of Seepage into Ground-Water System, Adigun Ade Abiodun, TN: HY7:July 73:1203:9827
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
TR:138:104
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
TR:138:552
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
TR:138:396
Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72:
TR:138:512
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
Dsc: Otto W. Steinhardt, CE:July 73:22
Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088

Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
TR:138:425
Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
TR:138:252
Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476
Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Groundwater Flow
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995
TR:138:383
Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and T. L. Brekke, RM14:73:481
Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567
Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
TR:138:153
Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Groundwater Management
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72:
TR:138:512

Groundwater Quality
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB:Aug 73:427
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
TR:138:153

Groundwater Recharge
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
TR:138:104
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72:
TR:138:512
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204

Groups
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9

Grout
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908

Grout Curtains
Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
TR:138:446

Grouting
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
TR:138:489
Experimental Cationic Asphalt Emulsion Grouting, Lloyd R. Gebhart, SM9:Sept 72:859:9172
TR:138:446
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303
TR:138:494
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
TR:138:492
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
TR:138:493
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715
Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
TR:138:493
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579:8947
TR:138:321

Guidance
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
TR:138:90

Gust Loads
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
TR:138:517
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49
Gust Factors and Alongwind Pressure Correlations, Emil Simiu, ST4:Apr 73:773:9686
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445

Guyed Towers
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
TR:138:169
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
TR:138:303

Guy Wires
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
TR:138:169
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
TR:138:303
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242

Gypsum

Research on an Extremely Rapid Setting High Strength Concrete, John E. Johnson, Donald O. Baehr and Robert J. Wenk, Preprint No.2097, Oct 73

Hail

The South Dakota Weather Modification Program, Merlin C. Williams, Preprint No.1883, Jan 73

Half Space

Analysis of an Inhomogeneous Elastic Half-Space, W. David Carrier, III and John T. Christian, TN: SM3: Mar 73:299:9632
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
TR:138:582
Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536
Tilting Foundations, Gerd F. Weissmann, SM1:Jan 72:49:8671
TR:138:152

Hammers

Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201: 9188
TR:138:475

Hangars

Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN: ST:July 73:1708:9828

Harbor Facilities

Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72: 333:9126
TR:138:426
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903
TR:138:335
Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74

Harbors

Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954
Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
TR:138:441
Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927
Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4: Nov 73:415:10137
Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
TR:138:494
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
TR:138:119
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265: 9757
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
TR:138:558
Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
TR:138:600
Multipurpose Land-Water Transfer Facility, C. Adrian Arnold, WW2:May 72:253:8903
TR:138:335
New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712
Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311: 9094
TR:138:351
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
TR:138:469
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74
Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115
TR:138:17
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
TR:138:81
Wave Defraction by Detached Breakwater, Michael Stiassnie and Gedeon Dagan, WW2:May 72:209: 8869
TR:138:265
Wave Transmission by Overtopping, Ralph H. Cross and Charles K. Sollitt, WW3:Aug 72:295:9137
TR:138:457

Harbor Structures

Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
TR:138:457
Oil Boom for Emergency Harbor Use, Ralph H. Cross and John J. Cunningham, WW1:Feb 73:27: 9531
Port Structure Costs, Eugene L. Sembler, Preprint No.2013, Apr 73

Hardening

Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423: 9641

Harmonic Functions

Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
TR:138:146

Harmonics

Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431
TR:138:556

Hauling

Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
TR:138:528

Hawaii

Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73: 691:10046
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

Head Losses

Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
TR:138:173
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022

Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227

Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415

Health

Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72: 645:9282
TR:138:591

Health Services Authority of Delaware, E. Wayne Martz, Preprint No.2068, Oct 73

The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
TR:138:593

Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283
TR:138:591

The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
TR:138:592

Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73: 59:9493

A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
TR:138:592

Heat Budget

Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2: Oct 72:253:9241
TR:138:392

Heated Water

Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189

Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
TR:138:559

Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569

Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385

Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663

Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
TR:138:136

Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35

Heat Exchangers

Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
TR:138:452

Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421

Heating

Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
Dsc: Donald H. Komito, CE:July 72:52
TR:138:158

Le Chateau Champlain, T. A. Monti, TB:73:C-P-278

Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307

Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389

Service Systems, Theme Report, Richard Baum, TB: 73:Ia-2-305

Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133

Heat Loss

Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191

Heat of Hydration

Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
TR:138:43

Heat Transfer

Analysis of Coupled Heat and Moisture Diffusion By Finite Elements, Thomas L. Cost and T. D. Loftin, Preprint No.1954, Apr 73

The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702

Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630

Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635

One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641

Heat Treatment

Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714

Heaving

Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207

Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853

Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703

Heavy Metals

Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73: 257:9753

Metal Toxicity to Sewage Organisms, Calvin P.C. Poon and Kiran L. Bhayani, SA2:Apr 71:161:8020

Height

The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72:
TR:138:387

The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73: Ia-1-103

Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93

Hele-Shaw Model

Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459: 9167
TR:138:411

Helicopters

Analysis of an 80-Foot Aircraft Shelter for Construction Stresses, J. P. Balsara and R. E. Walker, Preprint No.2019, Apr 73

Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155

Heliports

Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951

Herbicides

Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
TR:138:341

Heterogeneity

Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and T. L. Brekke, RM14:73:481

High Strength Bolts

Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866

High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
TR:138:576

High Strength Concretes

Research on an Extremely Rapid Setting High Strength Concrete, John E. Johnson, Donald O. Baehr and Robert J. Wenk, Preprint No.2097, Oct 73

Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE: Mar 72:48
TR:138:135

High Strength Steels

Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE: Mar 72:48
TR:138:135

High Water Mark

The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979

Highway Beautification

California County Considers Esthetics, Victor Sauer, CE:Nov 73:70

Esthetics in Highway Design, Donald Van Riper, CE: Apr 72:47
Dsc: Miguel P. Dengo, CE:Aug 72:46
TR:138:177

Highway Effects

Environmental Impact Studies of Highways, Satoshi Oishi and Charles H. Flavin, Preprint No.2048, July 73

Highway Engineering

Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE1:Feb 72:37:8699
TR:138:36

Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745

Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
TR:138:410

Bus Transit, Lester A. Hoel, CE:Mar 73:79

Concrete Safety Barrier Design, Edwin C. Lokken, Preprint No.2062, July 73

Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
TR:138:402

Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695
TR:138:16

Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260

Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858
TR:138:107

Economic Criterion for Highway Capacity Determination, Bruce G. Hutchinson, TE3:Aug 72: 465:9120
TR:138:377

Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE2:May 73:255:9721

Environmental Design and Construction Response on Highway Relocation for a Mountain Reservoir (A Rock Duet), Phillip L. Cole and Sydney Steinborn, Preprint No.1916, Jan 73

Environmental Impact Studies of Highways, Satoshi Oishi and Charles H. Flavin, Preprint No.2048, July 73

Esthetics in Highway Design, Donald Van Riper, CE: Apr 72:47
Dsc: Miguel P. Dengo, CE:Aug 72:46
TR:138:177

Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
TR:138:434

Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139

Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923

Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95

The Highway and Its Neighborhood, Michael Lash, Preprint No.2113, Oct 73

Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569

The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60

La Defense, Duiliu Sfintesco, TB:73:Ia-1-274

Long-Span Bridge: Utility, Grace at Low Cost, Harry M. Montgomery and Roger D. Troxell, CE: May 72:73
Dsc: Felix Kulka, CE:Aug 72:59
TR:138:269

Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE: Jan 72:71
TR:138:58

An Overview of Highway Research and Development, Flory J. Tamanini, Preprint No.1988, Apr 73

Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722

Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728

Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78

Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
TR:137:946

Practitioners Teach Students Art of Highway Engineering, David A. Novick, Howard S. Newman and Eben Vey, CE:Jan 72:45
Dsc: L. Lawrence Lewis, CE:Nov 73:24
TR:138:16

Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269

Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517

Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165

Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932

Safety Performance Standards for Highway Service, Peter G. Koltnow, Preprint No.1982, Apr 73

Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724

Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555

The Trans-Alaska Pipeline Story E. L. Patton, TE1: Feb 73:139:9573

Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
TR:138:440

Highway Planning

California County Considers Esthetics, Victor Sauer, CE:Nov 73:70
Concrete Safety Barrier Design, Edwin C. Lokken, Preprint No.2062, July 73
Dynamic Programming Runway Configuration Schemes, Jason C. Yu and David R. Gibson, Preprint No.2034, July 73
Environmental Impact Studies of Highways, Satoshi Oishi and Charles H. Flavin, Preprint No.2048, July 73
Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95
The Highway and Its Neighborhood, Michael Lash, Preprint No.2113, Oct 73
The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
TR:138:510
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932

Highways

Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
TR:138:349
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
TR:138:346
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
TR:138:410
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
TR:138:90
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
CE People: Roads Come To Remote Areas Of Lesotho Thanks To Young CE, CE:Nov 73:87
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53
Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71: 681:8543
TR:138:6
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE: Dec 73:49
Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55
Dsc: Melvin C. Sueltenfuss, CE:June 72:50; Stanley E. Degler, CE:May 72:48
TR:138:31
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
TR:138:292
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
TR:138:162
Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE: Feb 73:45
The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
TR:138:219
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
TR:138:316
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
TR:138:130
A Kinematic Sound Screen: A Cost-Effective Solution to Highway Noise Abatement, John B. Hauskins, Jr., Preprint No.1961, Apr 73
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
TR:138:478
Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88
Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
TR:138:285
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126
An Overview of Highway Research and Development, Flory J. Tamanini, Preprint No.1988, Apr 73
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Prefabricated Highways, William Zuk, TE2:May 72: 387:8895
TR:138:204
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
TR:138:99
Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136
TR:138:394
Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504
Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
TR:138:124
Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51
TR:138:86
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
TR:138:417
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914
TR:138:249
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
Dsc: William G.G. Blakney, CE:July 73:22

Highway Transportation
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
  Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE: Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73: 32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
  TR:138:417

Hinged Structures
Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72: 1161:8922
  TR:138:280

History
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
"Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
  TR:138:365
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, Neal FitzSimons, Chmn., BDACE:72:
  TR:138:137
City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72:
  TR:138:266
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-European Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB: 73:II-13-37
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73: 143:9670
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73: 331:9872
Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889
Dsc, Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34
Historical Development of Cable-Stayed Bridges, Walter Podolny, Jr. and John F. Fleming, ST9:Sept 72:2079:9201
  TR:138:458
Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
History and Philosophy of Tall Buildings, Rowland J. Mainstone, TB:73:Ia-1-264
Hydraulicians are Human Too, Hunter Rouse, HY5: May 72:875:8877
  TR:138:257
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
  TR:138:555
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Rapid Creek Watershed, Donald A. Thorson, HYB: Aug 73:449
Structural Art and Robert Maillart, David P. Billington, Preprint No.2108, Oct 73
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
Systems and Concepts, Preface, Fazlur R. Khan, TB: 73:Ia-1
Tall Buildings in Antiquity, Douglas D. Feaver, TB: 73:Ia-1-251
Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886

Homogeneity
Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1: Mar 72:13:8777
  TR:138:185

Honeycomb Cores
Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913
  TR:138:261

Hospitals
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73: 59:9493

Hot Film Anemometers
Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9: Sept 72:1625:9184
  TR:138:459
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
  TR:138:148
Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55

Houses
Mobile Homes and New Communities, Herbert W. Behrend, Preprint No.2088, Oct 73

Housing
The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
  Dsc: Dennis C. Cook, CE:Oct 72:63
  TR:138:339
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Economic Analysis of Housing Construction Methods, Shlomo Peer and Abraham Warszawski, CO2:Sept 72:287:9166
  TR:138:355

Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
TR:138:404
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970
High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894
TR:138:240
Mobile Homes and New Communities, Herbert W. Behrend, Preprint No.2088, Oct 73
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596
Social Psychological Factors, Density, in Tall Buildings, Roy C. Herrenkohl, Preprint No.2066, Oct 73
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133
Treated Wood Foundations for Houses, CE:Oct 73:41

Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Human Behavior
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
TR:138:505
An Electro-Optical Deflection Measuring Device, Robert A. Crist, Richard Anthony Marshall and Harold I. Laursen, Preprint No.2031, Apr 73
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811
Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687
Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868
Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1
Noise -- The Subtle Polluter, James D. Collins, Preprint No.2005, Apr 73
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103

Human Engineering
Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
TR:138:53
Team Effort, Robert J. Young, TB:73:C-DM-215

Human Factors Engineering
Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
TR:138:361
Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142
TR:138:397
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139
Static Force Analysis of the Human Spine, Ted Belytschko, A. B. Schultz and T. P. Andriacchi, Preprint No.2053, July 73
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
Dsc: Richard C. Elstner, CE:Apr 73:81
Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Team Effort, Robert J. Young, TB:73:C-DM-215
Welcoming Remarks at Tall Buildings Conference, Albert C. Zettlemoyer, Vice President and Provost, Lehigh University, TB:73:C-25

Hurricanes
Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12:Dec 73:2345:10230
Probabilities For Highest Wave In Hurricane, Leon E. Borgman, WW2:May 73:185:9705
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
TR:138:417

Hybrid Computers
Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473

Hydraulic Conductivity
Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
TR:137:967

Hydraulic Control
Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808
TR:138:271

Hydraulic Design
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117
Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113

Hydraulic Engineering
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
TR:138:278

Hydraulic Fills
Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939:10170
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501

Hydraulic Jets
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Hydraulic Jump Assisted by Cross-Jet, Teh-Yuh Kao, HY12:Dec 71:2037:8614
TR:138:78

Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Hydraulic Jump

Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007
TR:138:341
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
TR:138:596
Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117
TR:138:369
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71:2023:8599
TR:138:72
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8: Aug 72:1367:9088
TR:138:401
Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994
TR:137:934
Hydraulic Jump Assisted by Cross-Jet, Teh-Yuh Kao, HY12:Dec 71:2037:8614
TR:138:78
Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349
Plane Jet on Sloping Floors Under Finite Submergence, V. Mura Hari, HY9:Sept 73:1449:10027
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
TR:138:503
Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73:315

Hydraulic Laboratories

Hydraulicians are Human Too, Hunter Rouse, HY5: May 72:875:8877
Hydraulicians are Human Too, Hunter Rouse, HY5: May 72:875:8877
TR:138:257
TR:138:257

Hydraulic Models

Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445
Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427
TR:138:582
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455
Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
TR:138:362
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center and Thomas J. Rhone, Preprint No.1899, Jan 73
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
TR:138:558
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421
Evaluation and Control of Urban Runoff, John C. Schaake, Jr., Guy Leclerc and Brandan M. Harley, Preprint No.2103, Oct 73
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
TR:138:167
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
TR:138:129
Hydraulic Modeling of Flow in Porous Media, J. C. Guitjens, Preprint No.1886, Jan 73
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydraulic Model Study for Big Stone Plant -- Unit 1 Cooling Pond Baffle, Fred H. Wend and James F. Ruff, Preprint No.2094, Oct 73
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Model Versus Field Data on Thermal Plumes from Power Stations, L. C. Neale and George E. Hecker, ISSF:Aug 72:399
Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867
TR:138:227
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles L. Hirshberg, EE5:Oct 73:569:10045
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
TR:138:229
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
TR:138:511
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Simulation of Impoundment Turbidity Structure, Darrell G. Fontane, Preprint No.2083, Oct 73

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562
Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691:9216
TR:138:497
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
TR:138:136
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
TR:138:137
Wave Transmission by Overtopping, Ralph H. Cross and Charles K. Sollitt, WW3:Aug 72:295:9137
TR:138:457

Hydraulic Pressure

Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
TR:138:240

Hydraulic Properties

Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and T. L. Brekke, RM14:73:481

Hydraulic Radius

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46

Hydraulics

Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128
TR:138:430
Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
Analysis of Seepage into Ground-Water System, Adigun Ade Abiodun, TN: HY7:July 73:1203:9827
Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012
TR:138:354
Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71:1573:8528
TR:138:84
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
TR:138:2
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
TR:138:188
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73:1401:10018
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003:10160
Boundary Effects on Stability of Structures, A. S. Chawla, HY9:Sept 72:1557:9199
TR:138:481
Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7:July 72:1127:9007
TR:138:341
Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427
TR:138:582
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
TR:138:563
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie-Ling Chiang, HYB:Aug 73:371
Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606
Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73:417:9605
Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141
Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993
Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
TR:138:151
Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440
TR:138:32
Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874
Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
TR:137:852
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323
Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515
TR:138:42
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2:Feb 73:259:9542

Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296
Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593
TR:138:69
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
TR:138:291
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
TR:138:173
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
TR:138:207
Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
TR:138:397
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Computing Evapotranspiration by Geostrophic Drag Concept, John A. Mawdsley and Wilfried Brutsaert, HY1:Jan 73:99:9483
Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
TR:138:362
Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
TR:138:37
Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
TR:138:247
Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
TR:138:596
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10:Oct 73:1659:10070
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Determination of Kennedy's Parameter j for Dunes, M. Selim Yalin, TN: HY8:Aug 73:1287:9910
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11:Nov 72:1969:9330
TR:138:537
Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
TR:138:124
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
TR:138:50
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Distribution Channels with Multiple Outlets, William E. Hart and John Borelli, IR2:June 72:267:8976
TR:138:356
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9729
Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72:897:8920
TR:138:305
Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71:2023:8599
TR:138:72
Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73:793:9748
Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475:8761
TR:138:178
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8:Aug 72:1367:9088
TR:138:401
Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994
TR:137:934
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
TR:138:545
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
TR:138:476
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755

Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421

Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467

Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71: 1269:8367
TR:138:7

Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249

Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177: 9794

Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831

Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313: 10241

Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855

Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789

Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal Eroman Unny, HY5:May 73:713:9723

Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383
TR:138:23

Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105

Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85

Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
TR:138:517

Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121

Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73: 2217:10194

Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649
TR:138:108

Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
TR:138:163

Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886
TR:138:263

Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227

Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9: Sept 71:1317:8374
TR:138:18

Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465

Fluid Mechanics Teaching and Research: A View from a Dean's Office, Hunter Rouse, HY5:May 72: 775:8899
TR:138:287

Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869
TR:137:871

Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Hermann, HY6:June 73:959:9787

Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784

Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
TR:138:241

Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, Hemmat H. Safwat and Jaap v.d. Polder, HY11:Nov 73:1933:10158

Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205

Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
TR:138:601

Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167

Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
TR:138:155

Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
TR:138:167

Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
TR:138:588

Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72:
TR:138:512

Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417

Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
TR:137:967

Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489

High Head Gates and Valves in the United States, by the Task Committee on Outlet works of the Committee on Hydraulic Structures of the Hydraulic Division, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107

Hydraulicians are Human Too, Hunter Rouse, HY5: May 72:875:8877
TR:138:257

Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72: 1157:9031
TR:138:366

Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498

Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31

Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849
TR:138:333

Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172

Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
TR:138:559

Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567

Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067

Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73: 1235:9940

Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615

Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72: 1057:8952
TR:138:328

Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662

Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633

Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
TR:138:506

Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3: Mar 72:489:8765
TR:138:183

Lagrangian Characteristics of Surface Turbulence, Eggert Hansen, HY7:July 72:1255:9008
TR:138:346

Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974

Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711

Linear Programming and Channel Flow Identification, William W-G. Yeh and Leonard Becker, HY11:Nov 73:2013:10177

Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602

Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002

Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195: 9479

Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
TR:138:312

Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472

Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB: Aug 73:43

Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9: Sept 72:1625:9184
TR:138:459

Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451

Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72: 1575:9206
TR:138:486

Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010

Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279

Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365
TR:138:552

A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171: 9034
TR:138:373

Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463

Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304
TR:138:532

Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192

Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131

Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578
TR:138:56

Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589

Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
TR:138:542

Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
TR:138:530

Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162

On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335

Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73: 1777:10088

Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
TR:138:534

Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972

Optimization of Multiple Reservoir System, William J. Trott and William W-G Yeh, HY10:Oct 73:1865: 10065

Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11: Nov 72:2015:9370
TR:138:556

Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546

Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72: 1343:9119
TR:138:426

Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB: Aug 73:21

Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186
TR:138:463

Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609

Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113

Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060
TR:138:381

Plane Jet on Sloping Floors Under Finite Submergence, V. Mura Hari, HY9:Sept 73:1449: 10027

Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB: Aug 73:427

Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680

Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73: 383

Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
TR:138:585

Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856

Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995

Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5: May 73:729:9730

Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
TR:138:192

Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076

Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733

Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Don L. Chery, Jr., HY9:Sept 73:1337:9990
Rapid Creek Watershed, Donald A. Thorson, HYB:Aug 73:449
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
TR:138:301
Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division, Russell W. Revell, Chmn., HY2:Feb 73:337:9571
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
TR:138:229
Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898
TR:138:281
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
TR:138:159
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912
TR:138:296
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191
TR:138:470
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
TR:138:220
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
TR:138:314
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130
Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642
TR:138:102
Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71:1165:8279
TR:137:1023
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033
Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591
TR:138:64
Sediment Control Methods: D. Reservoirs, by the Task Committee for Preparation of Manual on Sedimentation of the Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
TR:138:213
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786
TR:137:856
Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521
TR:138:47
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11:Nov 73:2041:10167
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426
TR:138:578
Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
TR:138:252
Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506
Shear Flow Past Circular Cylinder, Thomas L. Shaw and Michael R. Starr, HY3:Mar 72:461:8774
TR:138:201
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056
Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224
Siphons: Some Scale-Effects in Models, Richard B. Whittington and Kamil H.M. Ali, HY1:Jan 72:45:8629
TR:138:94
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004
Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
TR:138:443
Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9:Sept 73:1653:10024
Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1:Jan 72:1:8627
TR:138:84
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
TR:138:146
Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533
Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418
TR:138:571
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
TR:138:567
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72:1117:9014
TR:138:359
Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
TR:138:544

Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658

Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
TR:138:428

Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165
TR:138:438

Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72:1935:9353
TR:138:548

Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562

Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
TR:138:336

Streamlines in Two-Dimensional Laminar Branch Flows, David Charles Blest, HY1:Jan 72:171:8656
TR:138:127

Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197

Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9:Sept 73:1433:10026

Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691:9216
TR:138:497

Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
TR:138:239

Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
TR:138:503

Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588

Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
TR:138:136

Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062

Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11

Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
TR:138:270

Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659

Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660

Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
TR:138:278

Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12:Dec 72:2191:9456
TR:138:597

Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8:Aug 72:1427:9105
TR:138:412

Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
TR:138:234

Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987

Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
TR:138:320

Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7:July 73:1129:9871

Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
TR:138:179

Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509

Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191

Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
TR:138:87

Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466

Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72:1187:9061
TR:138:386

Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and B. S. Pani, HY7:July 72:1101:9009
TR:138:350

Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992

Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664

Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Mill, HY7:July 73:1009:9847

Two-Distribution Method for Flood Frequency Analysis, Krishan P. Singh and Robert A. Sinclair, HY1:Jan 72:29:8639
TR:138:100

Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
TR:138:519

University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
TR:138:523

Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574

Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543:9174
TR:138:446

Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55

Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167:9500

Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73:315

Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155

Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131

Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9: Sept 72:1515:9187
TR:138:466
Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72: 153:8651
TR:138:111
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Hydraulic Test Units
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193

Hydraulic Transients
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405: 10169

Hydraulic Turbines
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707

Hydrodynamic Pressure
Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060
Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal Eroman Unny and David S. Weaver, TN: EM4:Aug 73:912: 9898
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
TR:138:308

Hydrodynamics
Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127
TR:138:388
Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
Free-Surface Ideal Fluid Flows by Finite Element, Stevens T.K. Chan, Bruce E. Larock and Leonard R. Hermann, HY6:June 73:959:9787
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804
TR:138:162
The Hydrodynamic Interaction of Thermal Stratification and Reservoir Water Quality, Mark Markovsky, Preprint No.1893, Jan 73
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110
TR:138:374
Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275: 9050
TR:138:378
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
TR:138:172
Plane Jet on Sloping Floors Under Finite Submergence, V. Mura Hari, HY9:Sept 73:1449: 10027
Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73: 17:9540
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061
TR:138:386
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
TR:138:371

Hydroelectric Power
Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304
TR:138:532
Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
TR:138:603

Hydroelectric Power Generation
At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73: 72
Design of a Hydroelectric Powerplant in an Area of High Seismicity, Marian Pona and A. B. Arnold, Preprint No.1959, Apr 73
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3: July 72:373:9029
TR:138:370
Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64
Dsc: Robert H. Griffin, CE:Oct 73:26
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666
TR:138:204
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65: 8984
TR:138:255
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
TR:138:469
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405: 10169
Tarb·la Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
TR:138:594
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
TR:138:550

Hydroelectric Powerplants
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, Preprint No.1999, Apr 73
Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
TR:138:206

Hydrofoils
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2: Feb 73:259:9542

Hydrograph Analysis
Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3: Sept 72:405:9213
TR:138:514

Hydrographic Surveys
The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
TR:137:852
Hydrography and the Engineer, Colin G. McQ Weeks, SU1:Sept 73:1:9981

Hydrographs
Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642
TR:138:102
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
TR:138:523

Hydrography
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499
Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018
TR:138:175

Hydrologic Models
National Weather Service River Forecasting System, Eric A. Anderson and John C. Monro, Preprint No.1879, Jan 73

Hydrologic Properties
Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224

Hydrology
Application of Simulation Techniques to Small Project Analyses, Milton L. Holloway and Lial F. Tischler, Preprint No.1907, Jan 73
Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
TR:138:188
Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979
TR:138:370
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Environmental Consideration in the Design of Blowdown Discharge Systems, Adnan M. Alsaffar, Preprint No.2065, Oct 73
Evaluation and Control of Urban Runoff, John C. Schaake, Jr., Guy Leclerc and Brandan M. Harley, Preprint No.2103, Oct 73
Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383
TR:138:23
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72:
TR:138:512
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472
Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73: 1235:9940
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
Dsc: Floyd A. Skow, CE:Jan 73:84
TR:138:398
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
TR:138:506
Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602
Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002
Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451
Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192
National Weather Service River Forecasting System, Eric A. Anderson and John C. Monro, Preprint No.1879, Jan 73
New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578
TR:138:56
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73: 1777:10088
Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73: 383
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
Rapid Creek Watershed, Donald A. Thorson, HYB: Aug 73:449
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12: Dec 72:2087:9426
TR:138:578
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
TR:138:443
Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72: 1935:9353
TR:138:548
Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9: Sept 73:1433:10026
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
TR:138:506
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
Unity of Stochastic and Deterministic Models in Hydrology, Rafael G. Quimpo, Preprint No.1897, Jan 73
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
TR:138:523
Use of Digital Radar Data in Operational Hydrology, Michael D. Hudlow, Preprint No.1911, Jan 73

Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018
TR:138:175
Watershed as a Semi-Infinite Storage Reservoir, Vit Klemes, Preprint No.1895, Jan 73

Hydromechanics
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491

Hydrometeorology
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
TR:138:291

Hydrostatic Pressure
Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041
Stability of Hyperboloidal Shells, Daniel R. Veronda and Victor I. Weingarten, Preprint No.2112, Oct 73

Hydrostatic Tests
Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
TR:138:294

Hyperbaric Medicine
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019
TR:138:322

Hyperbaric Oxygenation
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019
TR:138:322

Hyperbolic Parabolic Shells
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72:1575:9052
TR:138:359
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
TR:138:557
Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
TR:138:487
Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
TR:138:473
Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
TR:138:146
Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595:9629
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Dsc: Felix Kulka, CE:Oct 72:76
TR:138:275
Stability of Hyperboloidal Shells, Daniel R. Veronda and Victor I. Weingarten, Preprint No.2112, Oct 73
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
TR:138:431
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70
TR:138:262

Hysteresis
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725

I Beams
Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903
Curved I-Girders with Cross Sectional Deformation, John D. Mozer and Tek Sreang Chhim, Preprint No.1922, Apr 73
Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1:Feb 73:85:9548
Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72:713:8775
TR:138:165
Inelastic Buckling of Monosymmetric I-Beams, David A. Nethercot, TN: ST7:July 73:1696:9828
Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67
TR:138:151

Ice
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
TR:138:79
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
TR:138:387
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191
TR:138:470
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
TR:138:276
Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418
TR:138:571
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Ice Control
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
TR:138:387

Ice Cover
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498
Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
TR:138:326

Ice Formation
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498

Ice Jams
Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418
TR:138:571

Ice Lenses
Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77
TR:138:215

Ice Loads
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242

Ice-Water Interfaces
Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630

Idaho
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2:June 72:193:8940
TR:138:236
Rock Property Correlation, Crescent Mine, Idaho -- Abstract, E. H. Skinner, G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754

Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
TR:138:435
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Illinois
A Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., Preprint No.1896, Jan 73
Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983

Images
Computer Simulation of Distorted Structural Frameworks, Henry N. Christiansen, Preprint No.2080, Oct 73
Interactive Graphics: Portability and Adaptability, Robert H. Ewald, Larry J. Feeser and Robert L. Schiffman, Preprint No.2082, Oct 73

Imbeddings (Mathematics)
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094

Impact
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
TR:138:552
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
TR:138:429
Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959
Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, Preprint No.2091, Oct 73
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
TR:138:13
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733
Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752
Transthetics, Harold P. Hulett, PO1:June 72:103:8989
TR:138:313

Impact Loads
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77

Impact Prediction
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
TR:138:201

Impact Tests
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
TR:138:104

Imperfections
Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239
TR:138:477

Impervious Materials
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075

Impingement
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219

Impoundments
Simulation of Impoundment Turbidity Structure, Darrell G. Fontane, Preprint No.2083, Oct 73

Impulses
Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745
TR:138:156
Shock and Impulse Loadings as Related to Seismic Design, James F. Halsey, Preprint No.1962, Apr 73

Incentives
Management the Lincoln Electric Way, CE:Jan 73:76

Incineration
Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10:Oct 71:1431:8451
TR:138:65

Incinerators
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10:Oct 71:1431:8451
TR:138:65

Inclinometers
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
TR:138:457
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
TR:138:316

Incompressible Flow
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472

Indexes (Documentation)
Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
TR:138:407

India
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Evaluation of Harbor Deepening Projects, Sunil K. Bhattacharya and Amarendra N. Biswas, WW1:Feb 73:111:9575
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
TR:138:209
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
TR:138:270
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Indiana
Long Range Planning for Metropolitan Water Service, Maurice C. Stout and J. Darrell Bakken, Preprint No.1888, Jan 73

Industrial Plants

Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

Industrial Wastes

Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85

Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45

Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
TR:138:261

Industrial Waste Charges, James A. Seagraves, EE6: Dec 73:873:10203

The Nuclear Fuel Cycle and Waste Production, Harvey F. Soule, Preprint No.2093, Oct 73

Oil Boom for Emergency Harbor Use, Ralph H. Cross and John J. Cunningham, WW1:Feb 73:27: 9531

Oil Booms in Tidal Currents, Ralph H. Cross and David P. Hoult, WW1:Feb 72:25:8719
TR:138:192

Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214

Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2: Apr 72:299:8833
TR:138:321

Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543

Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561: 8990
TR:138:414

Water Pollution -. Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
TR:138:390

Inelastic Action

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348
TR:138:547

Gravity Effect on Single-Degree Inelastic System, Chang-Kuei Sun, Glen V. Berg and Robert D. Hanson, EM1:Feb 73:183:9565

Infiltration

Combined Sewer Overflows, Richard Field, CE:Feb 73:57

Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131

Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061

Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73: 1235:9940

Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047

Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186
TR:138:463

Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195

Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78

Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443: 9212
TR:138:502

Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
TR:138:114

Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375: 10013

Infiltration Rate

Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443: 9212
TR:138:502

Infiltrometers

Infiltration and Antecedent Precipitation, Constantine N. Papadakis and Herbert C. Preul, HY8:Aug 73: 1235:9940

Inflatable Structures

Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495: 9802

Inflation (Economics)

Environmental Impact on Project Schedules, Frederick H. Warren, PP3:July 73:299:9877

Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
TR:138:442

Inflow

Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8: Aug 72:1367:9088
TR:138:401

Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221

Influence Charts

Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921

Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73: 1349:9846

Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189

Influence Lines

Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478

Information

Introduction to Tall Buildings Conference, Lynn S. Beedle, Chmn, TB:73:C-21

Information Retrieval

Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614

Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615

Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
TR:138:407

Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984

List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721
TR:138:65

Pipeline Location: Bibliography Supplement, Committee on Pipeline Location of the Pipeline Division, Edward T. Marsh, TE2:May 73:363:9739

Shock and Impulse Loadings as Related to Seismic Design, James F. Halsey, Preprint No.1962, Apr 73

Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55

Tall Buildings Bibliography, Gerard F. Fox, TB:73:C-AC10-39

Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47

Tall Buildings: Preliminary Bibliography, Committee on Bibliography, TB:73:C-AC10-41

Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73: C-AC11-53

Information Systems
Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984
Technology Transfer Requirements in Engineering, Charles A. Babendreier, Preprint No.2096, Oct 73

Infrared Heating
Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Infrared Photography
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305

Inhibition
Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710
TR:138:181

Initial Stress
Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845
TR:138:218

Injection
Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42
Dsc: D. Earl Jones, Jr., CE:Dec 73:32

Injection Wells
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
TR:138:197
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Inland Waterways
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
TR:138:300

Inlets (Waterways)
Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224

Innovation
BART in Operation -- New Innovations in Rapid Transit, William A. Bugge, Preprint No.2060, July 73
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
TR:138:278

Inspection
The Art of Pipeline Anchoring, Brian C. Webb, Preprint No.2037, July 73
Construction of Deep Foundations, William F. Swiger, PES:73:III-207
Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26
Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749
Summary Report of Questionnaire on Construction Inspection, by the Task Committee on Inspection of the Construction Division, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
TR:138:524
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72: 303:8893
TR:138:195
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Installation
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462

Instantaneous Unit Hydrograph
Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
TR:138:362

Institutional Constraints
Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
TR:138:290

Institutions
The Concept "Institution" in Water Management Usage, Norman Wengert, Preprint No.1872, Jan 73
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Dsc: G. A. Hammond, CE:June 73:22; Darrell J. Turner, CE:June 73:22; T. P. Limber, CE:Aug 73:40
Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667
TR:138:215

Instrumentation
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
TR:138:316
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653: 9016
TR:138:363

Insulation
Design of Insulated Foundations, Eli I. Robinsky and Keith E. Bespflug, SM9:Sept 73:649:10009

Insurance
General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133
Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283
TR:138:591
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820
TR:138:250
Superior Pension Plan Helps Attract Employees, Jack L. Schoustra and Richard S. Summerhays, CE:Jan 73:58
Dsc: John H. Meursinge, CE:Apr 73:77

Insurance Costs
Overview of the Health Care Services Industry, Robert A. Tschetter, PP4:Oct 72:655:9283
TR:138:591

Intakes
Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859

Integral Transformations
Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847
TR:138:236

Interactions
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
TR:138:562
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788

Interchanges
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
TR:138:315

Interest Groups
Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52
Dsc: William S. Barrett, CE:Aug 72:64
TR:138:245

Interfaces
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF:Aug 72:251

Interior Decorating
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258

Internal Friction
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Internal Pressure
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339

Internal Waves
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283

International Commissions
Closing Remarks at Tall Buildings Conference, Le-Wu Lu, TB:73:C-511
Closing Remarks at the Tall Buildings Conference, Michael P. Gaus, TB:73:C-509
Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823
Implementation, Elmer K. Timby, TB:73:C-DM-225
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Introduction to Metric or SI, Burton Kleinberg, CE: Mar 73:55
Dsc: Burton Kleinberg, CE:Apr 73:81
Introduction to Tall Buildings Conference, Lynn S. Beedle, Chmn, TB:73:C-21
Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1
Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Opening Remarks to Tall Buildings Conference, Le-Wu Lu, Conference Chairman, TB:73:C-19
Systems and Concepts, Preface, Fazlur R. Khan, TB: 73:Ia-1
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Tall Buildings, Conference Summary, Duiliu Sfintesco, TB:73:C-505
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27
Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29

International Relations
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27

Interpolation
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Intersections
Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597: 9915

Interstate Highway System
Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
TR:138:402

Invariance
An Invariant Second Moment Reliability Format, Niels C. Lind, Preprint No.1921, Apr 73
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094

Inventories
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

Investigations
An Analysis of the Pt. Pleasant Bridge Investigation, Charles F. Scheffey, STF:73:77
Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849

Investment
Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72: 359:9064
TR:138:463

Investments
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353

Inviscid Flow
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81

Iodine
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98

Ion Density (Concentration)
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489: 9944

Ion Exchange
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
Dsc: Otto W. Steinhardt, CE:July 73:22

Ions
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81

Iowa
Environmental Consideration in the Design of Blowdown Discharge Systems, Adnan M. Alsaffar, Preprint No.2065, Oct 73

Iran
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Iraq
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
TR:138:494

Iron
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135: 9679
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672

Iron Compounds
Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
TR:138:74

Iron Oxides
Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73: 411:9945

Irradiation
Effects of Irradiation of Secondary Effluent, David D. Woodbridge, William R. Garrett and Pricilla C. Cooper, Preprint No.2085, Oct 73
Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561: 8990
TR:138:414

Irreversible Processes
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72: 1021:9430
TR:138:546

Irrigation
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
TR:138:331
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
TR:138:104
Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979
TR:138:370
Central California Evapotranspiration Frequencies, W. O. Pruitt, Sergius von Oettingen and D. L. Morgan, IR2:June 72:177:8941
TR:138:251
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72: 585:9413
TR:138:562
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279
Distribution Channels with Multiple Outlets, William E. Hart and John Borelli, IR2:June 72:267:8976
TR:138:356
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72: 433:9219
TR:138:539
Ecological Impacts of Water Projects in California, Robert M. Hagan and Edwin B. Roberts, IR1:Mar 72:25:8780
TR:138:198
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994
Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353: 9982
Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987
TR:138:12
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946
TR:138:294
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622
Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
TR:138:601
General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
TR:138:396
Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786

Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472

Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1: Mar 73:27:9608

Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
TR:138:486

Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3: Sept 72:363:9183
TR:138:460

Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000

Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
TR:138:267

Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304
TR:138:532

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613
TR:138:76

Operation and Maintenance of Irrigation and Drainage Systems: Section III. - By the Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Robert L. Taylor, Chmn., IR3:Sept 73: 237:10014

Optimal Irrigation Quantity and Frequency, I-pai Wu and Tung Liang, IR1:Mar 72:117:8776
TR:138:171

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
TR:138:549

Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2: June 72:193:8940
TR:138:236

People, Ecology and the Aswan High Dam, William H. Wisely, CE:Feb 72:37
Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
TR:138:67

Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586

Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
TR:138:528

Prediction of Irrigation Advance Function by Dimensional Analysis, G. Sastry and S. C. Agarwal, IR2:June 72:247:8939
TR:138:223

Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
TR:138:344

Sediment Routing in Irrigation Canal Sytems, Khalid Mahmood, Preprint No.1905, Jan 73

Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
TR:138:252

Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443: 9212
TR:138:502

Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
TR:138:580

Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
TR:138:570

Social Factors in Irrigation Design for Bangladesh, Stephen V. Allison and Kazi F. Jalal, Preprint No.1892, Jan 73

Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004

State Water Rights Laws, William R. Walker, Preprint No.1908, Jan 73

Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3: Sept 72:405:9213
TR:138:514

Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625

Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659

Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
TR:138:594

Theoretical Irrigation Tailwater Volumes, Ott C. Wilke, TN: IR3:Sept 73:415:9967

Tunnel Vision or Ecological View, Virginia M. Hines, IR3:Sept 71:397:8368
TR:138:28

Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73: 133:9783

Uniform Irrigation with Low-Pressure Trickle Systems, Lloyd E. Myers and Dale A. Bucks, IR3: Sept 72:341:9175
TR:138:436

Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
TR:138:450

Water and Society: Social Constraints and Resource Limitations, Evan Vlachos, Preprint No.1904, Jan 73

Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72: 215:8955
TR:138:318

Water-Yield Relations for Nonforage Crops, Lloyd A. Downey, IR1:Mar 72:107:8772
TR:138:157

Irrigation Canals

Changing Role of Water Conveyance Systems, Gaylord V. Skogerboe and Wynn R. Walker, Preprint No.1880, Jan 73

Distribution Channels with Multiple Outlets, William E. Hart and John Borelli, IR2:June 72:267:8976
TR:138:356

Sediment Routing in Irrigation Canal Sytems, Khalid Mahmood, Preprint No.1905, Jan 73

Irrigation Efficiency

Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
TR:138:331

Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786

Irrigation Engineering

Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586

Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Irrigation Operation " Maintenance

Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
TR:138:486

Irrigation Practices

Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1: Mar 72:91:8767
  TR:138:131

Irrigation Programs
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Social Factors in Irrigation Design for Bangladesh, Stephen V. Allison and Kazi F. Jalal, Preprint No.1892, Jan 73
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625

Irrigation Systems
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73: 143:9670
Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Operation and Maintenance of Irrigation and Drainage Systems: Section III. - By the Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Robert L. Taylor, Chmn., IR3:Sept 73: 237:10014
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195

Isotropy
Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
  TR:138:125
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335

Israel
An American Engineer in Israel, Irving Kett, CE: June 72:63
  Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73: 52; Elias Zolkov, CE:June 73:24
  TR:138:295

Iteration
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128
Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036
  TR:138:349
Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934
  TR:138:242

Jacking
Erecting the Center Span of the Fremont Bridge, Alpo J. Tokola, CE:July 73:62

Japan
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72: 237

Jet Aircraft
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
  TR:138:179

Jet Flow
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
  TR:138:563
Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275: 9050
  TR:138:378

Jet Mixing Flow
Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588

Jet Pumps
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177: 9794
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73: 589
Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Mill, HY7:July 73:1009:9847

Jets
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012
  TR:138:354
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
  TR:138:151
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
  TR:138:249
Flow-Induced Vibrations of Trashrack Bars, J. W. Fortey and Robert F. Tiry, CE:May 72:44
  TR:138:230
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
  TR:138:492
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
  TR:138:559
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Model Study of Dense Jet in Flowing Fluid, Forrest M. Holly, Jr. and John L. Grace, Jr., HY11:Nov 72:1921:9365
  TR:138:552
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
  TR:138:136

Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
TR:138:320
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and B. S. Pani, HY7:July 72:1101:9009
TR:138:350
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Jetties
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68

Joint Operations
Dsc, Joint Ventures For Architects And Engineers, William D. Alexander, CE:Aug 73:30

Joints (Connections)
Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
TR:138:573
Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
TR:138:542
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
TR:138:233
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE:Mar 72:42
TR:138:127
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
TR:138:128
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73:III-23-571
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12:Dec 72:2753:9425
TR:138:581

Joints (Geology)
Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
TR:138:274
Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441

Joints (Junctions)
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437
Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
TR:138:268
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
TR:138:576
Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
TR:138:561
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
TR:138:128

Joint Sealers
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE:Mar 72:42
TR:138:127

Joists
Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt and James R. Goodman, Preprint No.1953, Apr 73

Junctions
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022

Kentucky
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458

Kenya
Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436

Keys (Splines)
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
TR:138:561

Kinematics
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
TR:138:506
Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423:9641
Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9:Sept 73:1433:10026

Kinetics
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
TR:138:231
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
TR:138:448
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430
TR:138:546

Laboratories

Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165:9768

Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
  TR:138:179

Laboratory Tests

Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070

Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73

Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957:10161

Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596
  TR:138:128

Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3: Mar 72:489:8765
  TR:138:183

Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213

A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78
  Dsc: Norbert O. Schmidt, CE:Nov 72:56
  TR:138:165

Recession Flow in Surface Irrigation, I-pai Wu, IR1: Mar 72:77:8764
  TR:138:116

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
  TR:138:328

Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501

Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
  TR:138:588

Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
  TR:138:148

Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Labor Relations

Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
  TR:138:563

Lagrangian Functions

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3: June 73:445:9775

Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
  TR:138:508

Lake Ontario

Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145

Lakes

Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222

Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
  TR:138:149

Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227

Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683

Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
  TR:138:237

Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613

Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855

Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
  TR:138:559

Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
  Dsc: Jacob S. Parker, Jr., CE:July 73:28

Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
  TR:138:77

Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82

Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150

Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433

Lamellar Structure

Lamellar Tearing of Welded Steel, CE:Dec 73:34

Laminar Flow

Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012
  TR:138:354

New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956

Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11: Nov 72:2015:9370
  TR:138:556

Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

Laminated Wood

FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
  TR:138:169

Laminates

Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477

Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73:655:9653

Land Classification

Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52
  Dsc: William S. Barrett, CE:Aug 72:64
  TR:138:245

Landfills

Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE: Oct 72:72
  TR:138:468

Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1: May 73:217:9741

Land Management

Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52
  Dsc: William S. Barrett, CE:Aug 72:64
  TR:138:245

Land Ownership
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
TR:138:393

Land Reclamation
Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72:333:9126
TR:138:426
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82

Landscaping
United California Bank, Ormond Robert Berry, TB:73:C-P-251

Landslides
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center and Thomas J. Rhone, Preprint No.1899, Jan 73
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
TR:138:189
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Landslides and Foundation Design, Hsai-Yang S. Fang, TB:73:Ia-11-1012
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023

Land Subsidence
Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Land Surveys
How Land Surveying Is Being Modernized, Robert T. Howe, SU1:July 72:17:9049
TR:138:287
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
TR:138:211

Land Tenure
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973

Land Titles
The Environment and the Law, Remy R.L. de Jong, Preprint No.2071, Oct 73

Land Use
Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
TR:138:226
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
TR:138:375
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1:Mar 73:105:9619
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39:10015
Dsc, Controlling Urban Growth -- But for Whom?, Lawrence E. Miller, CE:Sept 73:36
Econometric Model to Aid in Urban Planning Decisions, John F. Brotchie, Ron Sharpe and A. Ray Toakley, UP1:Mar 73:25:9587
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971
TR:138:120
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
TR:138:282
Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
TR:138:71
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
TR:138:404
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
TR:138:478
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2:Dec 71:149:8568
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
TR:138:219
Irrigation Canal System Capacity Design Criteria, James D. Earles, IR3:Sept 73:227:9973
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
TR:138:130
Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135
Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
TR:138:408
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Needed: A National Land Use Policy, Daniel A. Dreyfus, CE:May 72:52
Dsc: William S. Barrett, CE:Aug 72:64
TR:138:245
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
TR:138:201
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
Noise -- The Subtle Polluter, James D. Collins, Preprint No.2005, Apr 73
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72:311:9059
TR:138:452
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269
Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
TR:138:314
Sample Approaches to Optimum Use of Marginal Lands, William W. Moore and Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
TR:138:207

San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
  TR:138:547
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Tall Buildings: Urban Planning Factors, Edgardo Contini, Preprint No.2066, Oct 73
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
Transthetics, Harold P. Hulett, PO1:June 72:103:8989
  TR:138:313
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
  TR:138:574
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
  TR:138:390
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054
  TR:138:605

Land Use Zoning
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39:10015
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046

Lanthanum Halides
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Lap Joints
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72:2541:9345
  TR:138:542

Laplace Transformation
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206

Laser Beams
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Lasers
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Lateral Forces
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
  TR:138:433
General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73:365:9604
Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
  Dsc: Murray I. Brill, CE:Sept 72:61; James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE:Dec 72:58
  TR:138:284
Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58
  Dsc: Ramzi H. Ferahian, CE:Aug 72:68; Robert V. Whitman, CE:Aug 72:68
  TR:138:254

Lateral Pressure
Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
  TR:138:243
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
  TR:138:538

Lateral Stability
Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829
Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
  TR:138:504

Laterites
Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
  TR:138:545

Latex
Chemical Resistant Resurfacing Mortars for Industrial Floors and Ramps, Dallas Grenley and Lou Kuhlmann, Preprint No.2092, Oct 73

Lattice Design
"Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
  TR:138:365

Law (Jurisprudence)
The Highway Engineer on Trial, Paul W. Clark, CE: Sept 73:60

Laws
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135

Leaching
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10:Oct 71:1431:8451
  TR:138:65
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB:Aug 73:427
Sanitary Landfills: The Latest Thinking, CE:Mar 73:69

Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
TR:138:153

Leakage

Identification of Parameters in Finite Leaky Aquifer System, Miguel A. Marino, HY2:Feb 73:319:9567
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78
Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
TR:138:240

Least Squares Method

Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
TR:138:572
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034

Legal Aspects

The Role of Contract and Specifications in Foundations, Max E. Greenberg, Preprint No.2074, Oct 73

Legislation

Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
TR:138:239
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Are Civil Engineers Qualified to Design Buildings?, CE:Feb 73:43
Dsc: James T. Durning, CE:June 73:22
ASCE at Midterm or Challenges of 1972, John E. Rinne, CE:July 73:87
TR:138:607
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
TR:138:22
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
The Concept "Institution" in Water Management Usage, Norman Wengert, Preprint No.1872, Jan 73
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
TR:138:381
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265: 9757
Environmental Aspects of Pipeline Route Selection, Francis J. Stastny, Preprint No.2076, Oct 73
The Environment and the Law, Remy R.L. de Jong, Preprint No.2071, Oct 73
Federal Funds Available to Sections for Minority Programs, Steve Tuttle, CE:Feb 73:66
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72:
TR:138:512
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
TR:138:219
Impact on Industries of Air Pollution Control Legislation -- A Panel Discussion, David M. Anderson, Preprint No.2109, Oct 73
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Legal Aspects of Thermal Discharges, Angel J. Martin, Preprint No.2098, Oct 73
Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, Preprint No.1869, Jan 73
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135
Legal Problems in Water Pollution Control, Dwight F. Metzler, Preprint No.1891, Jan 73
The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
TR:138:573
Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
TR:138:408
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
TR:138:187
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
TR:138:555
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Dsc: G. A. Hammond, CE:June 73:22; Darrell J. Turner, CE:June 73:22; T. P. Limber, CE:Aug 73:40
Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883
A Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., Preprint No.1896, Jan 73
President's Annual Address, John E. Rinne, CE:July 73:87
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Public Policy: Who Speaks for the Engineer?, Augustine J. Fredrich, Preprint No.2051, July 73
The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE: Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73: 32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148
State Water Rights Laws, William R. Walker, Preprint No.1908, Jan 73
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Urban Water Resources -- The Politics of Management, Francis B. Francois, Preprint No.1876, Jan 73
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365: 9879
Water Conveyance: Laws, Organization and Efficiency, G. E. Radosevich, Preprint No.1906, Jan 73

Levees

The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60

Unique Flood Control Problems and Solutions, Fred R. Cline and Edward Koehm, Preprint No.1945, Apr 73

Leveling

Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017

Liabilities

Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541
TR:138:108
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
TR:138:44
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820
TR:138:250
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
Dsc: Richard C. Elstner, CE:Apr 73:81

Libraries

Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
TR:138:397

Licenses

Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656

Life (Durability)

Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245:10159

Lift

Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB:Aug 73:43

Lime

Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72:311:8858
TR:138:107
Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74
TR:138:303

Limes

Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42
Dsc: D. Earl Jones, Jr., CE:Dec 73:32

Lime Soil Mixtures

Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72:327:8827
TR:138:235

Limestone

Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51
TR:138:86

Limit Design

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73:433:9816
Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949
Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333
Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483

Limit Design Method

Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859
Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431
Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892
Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert M. Lee, ST7:July 73:1371:9835
Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934
Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415
Gravity Loads and Temperature Effects, Summary Report, D. E. Allen, TB:73:Ib-5-145
Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902
TR:138:245
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
TR:138:130
Limit Design -- For The Office and The Laboratory, Richard W. Furlong, Preprint No.1987, Apr 73
Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841
Limit State for Dynamic Loads, Horea Sandi, TB:73:III-26-938
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863
Load Factor (Limit States) Design, Summary Report, W. C. Hansell and Ivan M. Viest, TB:73:II-19-899
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Load Factor Variables, James G. Mac Gregor, TB:73:III-26-935
Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894
Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10:Oct 73:2011:10091
Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72:1697:9154
TR:138:423
Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
TR:138:59
Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460

Serviceability, Emil Grasser, TB:73:III-22-465
Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625
TR:138:113
Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463
Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467

Linear Algebraic Equations
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
TR:138:409

Linear Differential Equations
Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72:1157:9031
TR:138:366
Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143
Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861

Linearity
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
TR:138:92

Linear Programming
Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
TR:137:935
Linear Programming and Channel Flow Identification, William W-G. Yeh and Leonard Becker, HY11:Nov 73:2013:10177
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
TR:138:409
Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934
TR:138:242

Linear Responses
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72:519:8961
TR:138:278

Linear Systems
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236

Liner Plates
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500

Linings
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197

Liquefaction
Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179:10189
A Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, Preprint No.1977, Apr 73
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE:Sept 72:95
TR:138:424
Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10:Oct 73:849:10053
Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9:Sept 71:1249:8371
TR:138:8

Liquid Level Indicators
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335

Litigation
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
TR:138:44
The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73

Live Loads
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23
Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59
Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127
Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85
Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245:10159
Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747
Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123
TR:138:384
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667

Load Distribution
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

Load Factors
Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-Europian Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB:73:II-13-37
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Load Factor Design for Combination of Loads, Theodore V. Galambos and Mayasandra K. Ravindra, Preprint No.1940, Apr 73
Load Factor Variables, James G. Mac Gregor, TB:73:III-26-935

Loading

Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869

Bounds for Impulsively Loaded Plastic Structures, John B. Martin and Alan R.S. Ronter, EM1:Feb 72:107:8745
  TR:138:156

Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
  TR:137:935

Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111

Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
  TR:138:572

Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835

Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849

Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
  Dsc: Murray I. Brill, CE:Sept 72:61; James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE: Dec 72:58
  TR:138:284

Seismic Design of LASH Terminal, Robert T. Lawson and Henry J. Degenkolb, Preprint No.2007, Apr 73

Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001

Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1

Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73: 2123:10055

Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
  TR:138:142

Loading Procedures

Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973

Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903: 9747

Loading Rate

Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973

Loading Tests

Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35

Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903

Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63

Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63
  TR:138:203

Loads (Forces)

Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381: 9585

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
  TR:138:340

Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291

Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234

Bearing Strength of Concrete--Geometric Variations, Sanat K. Niyogi, ST7:July 73:1471:9853

Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709

Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Buckling of Shells -- General Introduction and Review, Ernest F. Masur, Preprint No.2000, Apr 73

Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
  TR:138:509

Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147

Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139

Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709

Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113

Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655

Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258
  TR:138:495

Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645

Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1

Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87

Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59

Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902

Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127

Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399

Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407

Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
  TR:138:500

Drag Forces on Baffle Blocks in Hydraulic Jump, David R. Basco and John R. Adams, HY12:Dec 71: 2023:8599
  TR:138:72

Drag or Along-Wind Response of Slender Structures, Barry J. Vickery and Kwan H. Kao, ST1:Jan 72:21: 8635
  TR:138:86

Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
  TR:138:448

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
  TR:138:540

Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73: III-23-537

Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325

Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79

Experimental Study of Partially Loaded Plates, Anthony N. Palazotto, Gary Uthenwoldt and Michael Stankosky, Preprint No.2030, Apr 73

External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475
Floor Loads, Emilio Rosenblueth, TB:73:Ib-5-121
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
Gravity Loads and Temperature Effects, Summary Report, D. E. Allen, TB:73:Ib-5-145
Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5
Guide for the Design of Aluminum Transmission Towers, by the Task Committee on Lightweight Alloys of the Committee on Metals of the Structural Division, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
TR:138:596
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805
Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
TR:138:559
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514
Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73:521:9907
Load Balancing Analysis of Cable Stayed Bridges, Benjamin E. Lazar, Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122
TR:138:379
Load Factor (Limit States) Design, Summary Report, W. C. Hansell and Ivan M. Viest, TB:73:II-19-899
Load Factor Design for Combination of Loads, Theodore V. Galambos and Mayasandra K. Ravindra, Preprint No.1940, Apr 73
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19
Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
TR:138:48
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63
Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
TR:138:562
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Prediction of Load-Induced Dimensional Changes in Concrete, L. J. Parrott and J. M. Illston, Preprint No.1935, Apr 73
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Progressive Collapse, Abnormal Loads, and Building Codes, D. E. Allen and W. R. Schriever, STF:73:21
Progressive Collapse Risk, Norman F. Somes, TB:73:Ib-8-727
Rectangular Loads on Inhomogeneous Elastic Soil, Peter T. Brown and Robert E. Gibson, TN: SM10:Oct 73:917:10042
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249
TR:138:483
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
Shock and Impulse Loadings as Related to Seismic Design, James F. Halsey, Preprint No.1962, Apr 73
Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143
TR:137:943
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12:Dec 72:2753:9425
TR:138:581
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
TR:138:444
Structural Considerations in the Design of Submarine Pipelines, Sam W. Small, Preprint No.1974, Apr 73
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151
Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
TR:138:584
Tapered Cantilevers with Varying Distributed Loads, Tung-Ming Wang and Chun-Hsiung Lee, TN: EM4:Aug 73:919:9898
Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441
The 747 Fatigue and Fail Safe Testing, Max M. Spencer, Preprint No.1992, Apr 73

Local Government

The Legislation of Balance, Milton Pikarsky, TE3:Aug 73:483:9938

Locks (Waterways)

Cost Effective Waterway Design and Operation, Bruce Barker and Gerald D. Seinwill, Preprint No.2050, July 73

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
TR:138:475
Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53
Dsc: Daniel J. Mordell, CE:Mar 73:48
TR:138:496
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
TR:138:600
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004

Lodgepole Pine Trees
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

Loose Soils
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542

Louisiana
One Shell Square, Skidmore, Owings & Merrill, TB: 73:C-P-490

Low-Flow Augmentation
Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827: 9304
TR:138:532
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
TR:138:528

Lunar Crust
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156

Lunar Dust
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641

Lunar Geology
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641

Lunar Structure
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099

Machine Foundations
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Vibrations of Machine Foundations and Soil Dynamics Considerations, Dhirendra S. Saxena, Preprint No.1991, Apr 73

Magnetic Separators
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
TR:138:564

Maintenance
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260
External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
Dsc: Joel Rosenblatt, CE:July 73:22
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565
Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613
TR:138:76
Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688
Structural Repair of Earthquake Damaged Buildings, Jack M. Fratt, Preprint No.1973, Apr 73
The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72: 303:8893
TR:138:195

Management
American Engineering Unions, Hatim M. Hajj, PP2: Apr 73:213:9657
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB: 73:Ia-4-797
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
TR:138:375
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Client Relations, Chandler P. Young, EPMT:73:63
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
TR:138:563
Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
TR:138:528
Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT: 73:71
Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Formal Education in Construction Management, Abraham Warszawski, CO2:Sept 72:251:9164
TR:138:332
Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
TR:138:361
Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
TR:138:486
Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1
Management the Lincoln Electric Way, CE:Jan 73:76
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275: 9204
TR:138:546
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523

Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
TR:138:453
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
TR:138:55
Project Planning, John M. Shields, SU1:July 72:61:9041
TR:138:202
Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
TR:138:364
System for Control of Construction Quality, Roland M. Parsons, CO1:Mar 72:21:8757
TR:138:159
Transportation Problem Formulation and Evaluation, R. W. Woodhead and R. H. Wortman, Preprint No.2042, July 73

Management Analysis

Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Client Relations, Chandler P. Young, EPMT:73:63
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT:73:71
Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47

Management Control Reports

Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
TR:138:154

Management Engineering

Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
TR:138:476

Management Games

Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832

Management Planning

Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
TR:138:458
Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
TR:138:422

Management Systems

Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
TR:138:458

Management Training

Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Contractual Pitfalls, Al Wasserman, EPMT:73:37
Management Defined, Characteristics, and Human Behavior, Leon K. Madsen, EPMT:73:1
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47

Manifolds

Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9729
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
TR:138:465
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004

Mannings Equation

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
TR:138:312

Manpower

Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585

Manuals

Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
Dsc: Eugene T. Jensen, CE:July 72:69
TR:138:70

Mapping

Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
TR:138:604
Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
TR:138:445
Hydrography and the Engineer, Colin G. McQ Weeks, SU1:Sept 73:1:9981
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
TR:138:228
Pipeline Location: Bibliography Supplement, Committee on Pipeline Location of the Pipeline Division, Edward T. Marsh, TE2:May 73:363:9739
Selection of Maps for Engineering and Planning, by the Task Committee for the Preparation of a Manual on the Selection of Map Types, Scales and Accuracies for Engineering and Planning of the Committee on Cartographic Surveying of the Surveying and Mapping Division, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
TR:138:420
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
TR:138:121
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
TR:138:77
Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018
TR:138:175

Maps
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
TR:138:393
TR:138:393
Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018
TR:138:175

Marginal Benefits
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Marinas
Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4: Nov 73:415:10137
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
TR:138:79

Marine Terminals
Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72: 333:9126
TR:138:426

Marine Transportation
Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
TR:138:243

Marketing
Marketing Professional Engineering Services, Lynn D. Dorsey, CE:Oct 73:99

Market Research
Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951

Market Value
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
TR:138:353

Markov Processes
Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
TR:138:339
Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72: 1935:9353
TR:138:548

Marshes
The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979
Estimation of Estuarine Marsh Productivity, Eugene De Michele, TN: EE3:June 73:397:9764

Maryland
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
Dsc: Jacob S. Parker, Jr., CE:July 73:28
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
TR:138:244

Masonry
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
TR:138:271
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73: III-27-981
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913: 8253
TR:137:976
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593: 8143
TR:137:943
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099

Mass
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
TR:138:155

Massachusetts
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
TR:138:324
Boston Collapse, William A. Litle, STF:73:99
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358
Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76

Mass Concrete
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
TR:138:429

Mass Production
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477

Mass Transfer
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635

Mass Transportation
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, Preprint No.2040, July 73

Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
Houston Airport's Low Cost People Mover, Hal K. Puckett and James C. Williamson, Preprint No.2047, July 73
The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571: 9960
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
  TR:138:325
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73: 59:9493
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
  Dsc: Larry Madsen, CE:Aug 72:54
  TR:138:226
Transportation Problem Formulation and Evaluation, R. W. Woodhead and R. H. Wortman, Preprint No.2042, July 73
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Urban Transportation, Murray A. Muspratt, TN: TE1:Feb 73:193:9529

Materials

Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73: 1283:10207
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853: 9917
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4: Apr 72:311:8817
  TR:138:224
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363
  TR:138:541
Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9: Sept 71:1317:8374
  TR:138:18
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Materials Handling

Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139
  TR:138:411

Materials Stability

Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019
  TR:138:322

Materials Tests

Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
  TR:138:445
Influence of Loading Rate On Rock Response, Dale E. Stephenson and George E. Triandafilidis, Preprint No.2004, Apr 73
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
  TR:138:532

Mathematical Analysis

Optimization of Multiple Reservoir System, William J. Trott and William W-G Yeh, HY10:Oct 73:1865: 10065

Mathematical Logic

Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
  TR:138:487

Mathematical Models

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Allocation and Apportionment of Highway Funds, Woodrow W. Rankin and Ralph J. Oravec, TE2: May 73:405:9745
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Analysis of Sediment Sorting in Alluvial Channels, Saeed A. Rana, Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
  TR:138:154
Application of Simulation Techniques to Small Project Analyses, Milton L. Holloway and Lial F. Tischler, Preprint No.1907, Jan 73
Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
  TR:138:330
Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
  TR:138:299
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441
  TR:138:569
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Border Irrigation Advance and Ephemeral Flood Waves, Roger E. Smith, IR2:June 72:289:8979
  TR:138:370
Buckling of Shells -- General Introduction and Review, Ernest F. Masur, Preprint No.2000, Apr 73
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
  TR:138:207
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117: 8985
  TR:138:286
Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
  TR:138:362
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73: 2195:10233
Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668
  TR:138:132
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269

Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
TR:138:50
Dynamic Programming Runway Configuration Schemes, Jason C. Yu and David R. Gibson, Preprint No.2034, July 73
Econometric Model to Aid in Urban Planning Decisions, John F. Brotchie, Ron Sharpe and A. Ray Toakley, UP1:Mar 73:25:9587
Economic Modelling, Alan D. Russell, Preprint No.2066, Oct 73
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755
Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
TR:138:518
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
TR:138:162
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
TR:138:129
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Identification of Random Systems and Applications, T. T. Soong, Preprint No.2001, Apr 73
Impedance Minimization Travel Choice Process, Edward A. Beimborn, TE2:May 72:177:8882
TR:138:140
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, Preprint No.1937, Apr 73
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, EM6:Dec 73:1181:10210
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72:273:9242
TR:138:419
Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
TR:138:54
Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
TR:138:339
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
TR:138:442
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
TR:138:209
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206
TR:138:486
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
New Analytical Solutions for Dye Diffusion Equations, Robert W. Cleary and Donald Dean Adrian, EE3:June 73:213:9770
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
TR:138:513
Optimal Irrigation Quantity and Frequency, I-pai Wu and Tung Liang, IR1:Mar 72:117:8776
TR:138:171
Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715
TR:138:200
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
TR:138:360
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119
TR:138:426
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984
TR:138:255
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
TR:138:598
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889
Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Don L. Chery, Jr., HY9:Sept 73:1337:9990
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214
Reliability of Structural Systems, Fred Moses, Preprint No.2023, Apr 73
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
TR:138:288
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Secondary Consolidation and Strength of a Clay, Chih-Kang Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426
TR:138:578
Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796
TR:138:283
Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt and James R. Goodman, Preprint No.1953, Apr 73
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020
Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990
Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418
TR:138:571
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734

Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
TR:138:600
Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165
TR:138:438
Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72:1935:9353
TR:138:548
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
TR:138:488
Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
TR:138:557
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4:Nov 72:799:9362
TR:138:535
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191
Unity of Stochastic and Deterministic Models in Hydrology, Rafael G. Quimpo, Preprint No.1897, Jan 73
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
TR:138:523
Utility Function Determination for Bidding Models, Jack H. Willenbrock, CO1:July 73:133:9843
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3:Aug 72:715:9124
TR:138:385
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
TR:138:350
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429
TR:138:57
Watershed as a Semi-Infinite Storage Reservoir, Vit Klemes, Preprint No.1895, Jan 73

Mathematical Programming
Econometric Model to Aid in Urban Planning Decisions, John F. Brotchie, Ron Sharpe and A. Ray Toakley, UP1:Mar 73:25:9587

Mathematical Studies
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
TR:138:197

Mathematics
Analysis of Transportation Methods in Construction, Abraham Warszawski, CO1:July 73:191:9890
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
TR:138:563
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
TR:138:218
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
TR:138:4
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260
TR:138:495
Validity of Dupuit-Forchheimer Equation, Willard A. Murray and Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Matrices (Mathematics)
Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
TR:138:88
Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105:9281
TR:138:527
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Eigensolution of Large Structural Systems with Small Bandwidth, Klaus-Jurgen Bathe and Edward L. Wilson, EM3:June 73:467:9782
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
TR:138:282
Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
TR:138:223
General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732
TR:138:150
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
TR:138:593
Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666
Large Eigenvalue Problems in Dynamic Analysis, Klaus-Jurgen Bathe and Edward L. Wilson, EM6:Dec 72:1471:9433
TR:138:560
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472
Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
Rapid Reduction of Banded Stiffness Matrices, Frederic W. Williams, TN: ST5:May 73:967:9704
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
TR:138:75
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
TR:138:159

Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861

Tangent Stiffness in Space Frames, Cenap Oran, ST6: June 73:987:9813

Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248

TR:138:479

Matrix Methods

Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7: July 72:1493:9033

TR:138:344

Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914

General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732

TR:138:150

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455

TR:138:589

Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472

Static Force Analysis of the Human Spine, Ted Belytschko, A. B. Schultz and T. P. Andriacchi, Preprint No.2053, July 73

Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022

TR:138:333

Matrix Methods (Structural)

Incremental Finite Element Matrices, Sundaramoorthy Rajasekaran and David W. Murray, ST12:Dec 73:2423:10226

Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Mats

Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323

Mean

Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB: 73:Ib-10-919

Meanders

Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869

TR:137:871

Measurement

Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910

TR:138:241

Introduction to Metric or SI, Burton Kleinberg, CE: Mar 73:55

Dsc: Burton Kleinberg, CE:Apr 73:81

Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519

Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276

TR:138:555

Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437

Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663

Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55

Measuring Instruments

At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801

Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1: July 72:93:9053

TR:138:313

The Development of an Instrument Pig, B. VerNooy, Preprint No.2045, July 73

Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73: 299

A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73

TR:138:63

An Electro-Optical Deflection Measuring Device, Robert A. Crist, Richard Anthony Marshall and Harold I. Laursen, Preprint No.2031, Apr 73

Evaluation of Earthquake Damage, State-of-Art Report 5, C. W. Pinkham, TB:73:Ib-6-229

Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438

TR:138:601

Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737

Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165: 9768

Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

New Approach to Hydrologic Data Acquisition, Edward J. Langham, HY12:Dec 71:1965:8578

TR:138:56

Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311

Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3: June 73:283:9797

Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457: 10243

Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144

TR:138:404

Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8: Aug 73:1797:9911

Mechanical Equipment

Service Systems, Theme Report, Richard Baum, TB: 73:Ia-2-305

Mechanical Properties

Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157

Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Mechanics

Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113: 9477

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281

TR:138:527

Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127

TR:138:388

Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784

TR:138:174

Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648

TR:138:133

Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475

Medians (Dividers)

Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88

Medical Services
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73:59:9493

Medicine
Health Services Authority of Delaware, E. Wayne Martz, Preprint No.2068, Oct 73

Membrane Processes
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
TR:138:384

Membranes
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
TR:138:557
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
TR:138:473
Finite Deflections of Circular Membranes, John Peddieson, Jr., TN: EM3:June 73:634:9765
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240

Memoirs of Deceased Members
See name of member in Name Index

Memory
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Meningitis
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98

Mercury (Metal)
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73:257:9753

Metals
Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
TR:138:21
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153:8637
TR:138:93

Meteorology
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
TR:138:457
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72:585:9413
TR:138:562
Density Altitude Variations and Runway Length, Thomas B. Davinroy, TE4:Nov 71:591:8512
TR:137:977
Experiments on Unstable Vortices, Enzo Levi, EM3:June 72:539:8948
TR:138:249
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472
Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451
Rapid Creek Watershed, Donald A. Thorson, HYB:Aug 73:449
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Research Review -- North and South America, State-of-Art Report 3, W. A. Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
The South Dakota Weather Modification Program, Merlin C. Williams, Preprint No.1883, Jan 73
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Methemoglobinemia
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
Dsc: Otto W. Steinhardt, CE:July 73:22

Metric System
Dsc, Carter H. Harrison, Jr., CE:May 73:20
Definitions of Surveying and Associated Terms -- Manual and Report on Engineering Practice No. 34, 1972, 205 pp.
TR:138:606
Introduction to Metric or SI, Burton Kleinberg, CE:Mar 73:55
Dsc: Burton Kleinberg, CE:Apr 73:81
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
TR:138:555
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523

Mica
Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401
TR:138:33

Michigan
Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64
Dsc: Robert H. Griffin, CE:Oct 73:26
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
TR:138:510
Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Microbiology
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Microenvironment
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
TR:138:593

Microorganism Control (Water)
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
TR:138:98

Microorganisms
Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186

Mineral Deposits
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421

Mines
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
The Subsurface Environment: Private Property or Public Domain, William R. Walker and William E. Cox, Preprint No.2102, Oct 73

Mine Shafts
Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739

Minimax Technique
Linear Programming and Channel Flow Identification, William W-G. Yeh and Leonard Becker, HY11:Nov 73:2013:10177

Minimum Weight Design
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
TR:138:538
Unified Approach to the Theory of Plastic Structures, M. A. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
TR:138:466

Minimum Weight Theory
Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201

Mining
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747
The Subsurface Environment: Private Property or Public Domain, William R. Walker and William E. Cox, Preprint No.2102, Oct 73
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501
Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Mining Research
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41

Minnesota
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85

Minority Groups
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
Federal Funds Available to Sections for Minority Programs, Steve Tuttle, CE:Feb 73:66
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
TR:138:485
Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
Reflection on My Profession by a Black Civil Engineer, Benito A. Sinclair, Preprint No.1901, Jan 73
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76
TR:138:161

Missile Launching Sites
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807

Mississippi
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
TR:138:50
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653

Mississippi River
Feasibility Study of Mississippi River Crossings -- Interstate Route 410, T. Robert Kealey, Preprint No.2003, Apr 73
The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60
Mississippi River Water for Texas, Ottoniel Arguello and Raphael G. Kazmann, Preprint No.1867, Jan 73
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212
Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
TR:138:387

Missouri
Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
TR:138:39
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867
TR:138:227
St. Louis Cleans up the Mississippi, CE:May 72:61
Dsc: Eugene T. Jensen, CE:Aug 72:41; S. J. Fenves, F. C. McMichael and C. L. Dym, CE:Aug 72:41; Oskar S. Bray, CE:Sept 72:94; John M. Henderson, CE:Nov 72:62; Edgar T. Moore, Jr., CE:Nov 72:62; LeRoy VanKleeck, CE:Jan 73:57; Harold H. Munger, CE:Jan 73:84
TR:138:259
The Wainwright Building, John D. Randall, TB:73:C-P-352

Mixing
Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117:8985
TR:138:286
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Environmental Consideration in the Design of Blowdown Discharge Systems, Adnan M. Alsaffar, Preprint No.2065, Oct 73
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF:Aug 72:251
Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
TR:138:148

Mobility
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6:June 72:625:8999
TR:138:347
Mobile Homes and New Communities, Herbert W. Behrend, Preprint No.2088, Oct 73
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
TR:138:484

Modal Split

Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
TR:138:234
Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
TR:138:518
Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569
Impedance Minimization Travel Choice Process, Edward A. Beimborn, TE2:May 72:177:8882
TR:138:140
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126
Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571:9960
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3:Aug 72:715:9124
TR:138:385

Mode (Statistics)

Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958
TR:138:273

Models

Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
TR:138:226
Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
TR:138:87
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
TR:138:521
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1:9496
Buckling Stress States of Cylindrical Shells, Ihsan Mungan, Preprint No.1994, Apr 73
Codes and Model Testing, John Springfield, TB:73:Ib-7-431
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9729
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Experimental Study of Partially Loaded Plates, Anthony N. Palazotto, Gary Uthenwoldt and Michael Stankosky, Preprint No.2030, Apr 73
Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992
TR:138:325
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7:July 73:1439:9854
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708
Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633:9074
TR:138:376
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
TR:138:506
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
TR:138:442
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
TR:138:209
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
TR:138:172
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
TR:138:48
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1:Feb 73:201:9576
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Multi-Story Reinforced Concrete Frame Models, Asadul H. Chowdhury, Richard N. White and Norman R. Scott, Preprint No.2002, Apr 73
Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, L. T. Fan and L. E. Erickson, EE3:June 73:315:9798
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126
Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
TR:138:450
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706
Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201:9188
TR:138:475
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
TR:138:229
Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., Preprint No.1952, Apr 73
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549
Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
TR:138:329
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
TR:138:550
81-ft Model of Prestressed Bridge, CE:Oct 72:83
TR:138:477

Model Studies
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534
Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
TR:138:160

Model Tests
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71: 1675:8577
TR:137:958
Buckling Stress States of Cylindrical Shells, Ihsan Mungan, Preprint No.1994, Apr 73
Dynamic Response of Structures to Combined Effects of Ground Shock and Air Blast, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, Preprint No.1989, Apr 73
Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
TR:138:538
Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
TR:138:48
Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579
On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441
Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769
Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115
TR:138:17

Modular Structures
Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52
TR:138:186

Modules
Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52
TR:138:186
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Moisture Content
Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14: 73:223

Moisture Uptake
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240

Moment Distribution
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72: 2541:9345
TR:138:542
Half Frame Method, Bernardo J. Deschapelles, TB: 73:II-16-591
Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762
TR:138:153
Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135: 8644
TR:138:113
Methods of Analysis, Bernardo J. Deschapelles, TB: 73:III-21-309
Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72: 1697:9154
TR:138:423
Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Moments
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340
Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339
TR:138:536
Cracking and Control, Neil Jackson, TB:73:III-24-723
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679: 8993
TR:138:330
Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617

Momentum
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249
Plane Jet on Sloping Floors Under Finite Submergence, V. Mura, Hari, HY9:Sept 73:1449: 10027

Momentum Equation
Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073

Monitoring
Monitoring Group Movement in Geothermal Areas, Ben E. Lofgren, HYB:Aug 73:437
Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
TR:138:55

Monorail Railways
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE: Mar 72:48
TR:138:135

Montana
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85
Montana Power Company's Dam Repair Program, Clifford L. Emmerling, CO2:Sept 72:295:9208
TR:138:565

Monte Carlo Method

Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128
TR:138:430
Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889
TR:138:317
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328
TR:138:531

Mooring

Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179
Planning Aspects for Variable and Fixed-Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73

Moorings

Two-Point Mooring System for Spar Buoy, John H. Nath and Steve Neshyba, WW2:May 71:295:8115
TR:138:17

Morning Glory Spillway

Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859

Morphology

Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, Preprint No.2039, July 73

Mortars

Chemical Resistant Resurfacing Mortars for Industrial Floors and Ramps, Dallas Grenley and Lou Kuhlmann, Preprint No.2092, Oct 73
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290

Mortars (Material)

Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
TR:138:462
New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46

Motion

Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687
Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868
Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067
A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165
Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., Preprint No.1952, Apr 73

Motivation

Motivation of Construction Craftsmen, Charles R. Schrader, CO2:Sept 72:257:9185
TR:138:453

Motor Vehicles

California Tackles Highway Noise, James D. Collins, CE:Nov 73:56

Movable Bed Models

Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
TR:138:558

Movement

Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB:73:III-25-793

Multiphase Flow

Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162

Multiple Purpose Projects

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304
TR:138:532

Multiple Purpose Reservoirs

Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3:July 72:373:9029
TR:138:370

Multiple Use

Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
TR:138:285

Multivariate Analysis

Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
TR:138:237
Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192

Municipal Engineering

Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85
The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73
Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589
TR:138:112
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Long Range Planning for Metropolitan Water Service, Maurice C. Stout and J. Darrell Bakken, Preprint No.1888, Jan 73
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879
Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044
1971 ASCE Salary Survey, the Committee on Employment Conditions of the Department of Professional Activities, Charles J. Stevens, Chmn., PP3:July 72:393:9025
TR:138:347

Municipal Water
Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2: Apr 72:299:8833
TR:138:321

Muscles
Fourier Analysis of Simulated and Recorded EMG, Gyan C. Agarwal and Gerald L. Gottlieb, Preprint No.2035, July 73

Nails
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437

Nappe
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
TR:138:163

National Defense
General Aviation in Our Transportation System, George P. Coker, ASC73:Mar 73:133

National Historic Sites
Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361: 8811
TR:138:282

Natural Frequency
Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau Kai Cheung, EM5:Oct 72: 1225:9233
TR:138:443
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
TR:138:308

Natural Gas
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148

Natural Resources
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
TR:138:604
Competing Values in Water Development -- The Congressional Viewpoint, Daniel A. Dreyfus, Preprint No.1894, Jan 73
Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025
Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971
TR:138:120
Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
TR:138:422
Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262
TR:138:535
Notes on Trees and Tree Planting, Hans F. Bell, CE: July 73:77
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82
The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Director, UNSANS:73:
Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044
Water and Society: Social Constraints and Resource Limitations, Evan Vlachos, Preprint No.1904, Jan 73

Naval Ships
Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098

Navier-Stokes Equations
Finite Element Solution for General Fluid Motion, Gary L. Guymon, HY6:June 73:913:9789
Spiral Flows in Finite Rotating Annular Tubes, Tin-Kan Hung, EM1:Feb 73:13:9533

Navigable Rivers
Great Falls Canal and Locks: Civil Engineering Landmark, CE:Nov 72:53
Dsc: Daniel J. Mordell, CE:Mar 73:48
TR:138:496

Navigation
Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559
Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
TR:138:475
Hydrography and the Engineer, Colin G. McQ Weeks, SU1:Sept 73:1:9981
Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139
TR:138:29

Nebraska
Upstream Drainage Increases Spillway Stability, Charles D. Craddock, Preprint No.1902, Jan 73

Necking
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
TR:138:21

Negative Friction
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941

Neighborhoods
The Highway and Its Neighborhood, Michael Lash, Preprint No.2113, Oct 73
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032

Netherlands
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Dsc: George C. Govatos, CE:Mar 73:75
TR:138:400

Network Analysis
Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393: 9746
Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72: 1157:9031
TR:138:366
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73: 81:9832

Network Analysis (Management)
Dsc, "Precedence Networks For Project Planning And Control", John A. Cunningham, CE:Dec 73:24
Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62

Networks
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742

Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
TR:138:546
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
TR:138:105
Tall Buildings Elastically Coupled, Ramiro Sofronic, TB:73:Ia-3-637

Nevada
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
TR:138:336

New England
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867

New Hampshire
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342

New Jersey
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Dsc: George C. Govatos, CE:Mar 73:75
TR:138:400
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
TR:138:179

Newton-Raphson Method
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
TR:138:207
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
TR:138:508

New York
Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Clinton Square, Welton Becket and Associates, TB:73:C-P-338
Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
TR:138:429
Finland House, Kahn & Jacobs, TB:73:C-P-350
Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN:SM10:Oct 73:912:10042
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021
New Pier in Jamaica Bay, Remig A. Papp, CE:Aug 72:52
TR:138:372
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
TR:138:199
Offshore Jetport for New York-New Jersey Megalopolis, Edward G. Nawy and Fred C. Koletty, TE2:May 72:243:8891
TR:138:179
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Standard Oil of N.J., Harrison & Abramovitz, TB:73:C-P-431
Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
TR:138:105
Tocks Island Lake Project -- Panel Discussion, Gerald T. McCarthy, Preprint No.2079, Oct 73
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Water Resources Development: Tocks Island Lake, John A. Burnes, Preprint No.2081, Oct 73
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302

New Zealand
Dsc, Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34

Nicaragua
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397
Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60

Nigeria
Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562

Nitrates
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
TR:138:448

Nitrogen
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5:Oct 73:639:10043

Nitrogen Compounds
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200

Nitrogen Fixation
Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5:Oct 73:639:10043

Nitrogen Oxides
Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
TR:138:82

Noise
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
TR:138:410
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
A Kinematic Sound Screen: A Cost-Effective Solution to Highway Noise Abatement, John B. Hauskins, Jr., Preprint No.1961, Apr 73
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
TR:138:579
Noise -- The Subtle Polluter, James D. Collins, Preprint No:2005, Apr 73

Noise (Sound)
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202

Noise Masking
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
TR:138:410

Noise Reduction
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72:823:9319
TR:138:449
Environmentally Sensitive Construction Procedures, Austin H. Emery, Preprint No.2089, Oct 73
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
TR:138:404
A Kinematic Sound Screen: A Cost-Effective Solution to Highway Noise Abatement, John B. Hauskins, Jr., Preprint No.1961, Apr 73
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
TR:138:579
Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590
Noise -- The Subtle Polluter, James D. Collins, Preprint No.2005, Apr 73
Projections of the U.S. Airline Fleet in the Early 1980's, Robert Horonjeff and Richard Coykendall, ASC73:Mar 73:1
Recent Advances in Aircraft Noise Reduction, R. P. Skully, ASC73:Mar 73:43
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE: May 73:58
TR:138:221
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
TR:138:194
Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153

Nondestructive Tests
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Nonlinear Algebraic Equations
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
TR:138:409

Nonlinear Differential Equations
Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3: Mar 73:321:9601
Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483
Nonlinear Analysis of Instability in Tension, Sam Tang, EM5:Oct 71:1487:8428
TR:138:21

Nonlinear Programming
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091
TR:138:343
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541: 9864

Nonlinear Systems
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231
Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Non-Linear Analysis and Limit Design, Theme Report, Giorgio Macchi, TB:73:III-22-333
Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
TR:138:228
Nonlinear Dynamics of Cables with Low Initial Tension, John W. Leonard, EM2:Apr 72:293:8805
TR:138:170
Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
TR:138:562
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
TR:138:542
On The Nonlinear Theory of Shells, Gerald A. Wempner, Preprint No.2095, Oct 73
Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431
TR:138:556
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Nonuniform Flow
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415

North Carolina
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
TR:138:162

Norway
Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73: 81

Nozzle Flow
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73: 589

Nuclear Electric Power Generation
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
TR:138:140
Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240
TR:137:989

Engineering For People, Richard R. Harbert, PP3: July 72:387:9058
  TR:138:441
Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714
Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235: 9756
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
  TR:138:569
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
  TR:138:364
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Nuclear Explosion Effects
Radar Building Can Withstand Nuclear Attack, Edward Cohen and Edward B. Laing, CE:Oct 73:46

Nuclear Fuel Reprocessing
The Nuclear Fuel Cycle and Waste Production, Harvey F. Soule, Preprint No.2093, Oct 73

Nuclear Power Plants
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, Oscar G. De Pineres, SDNPF:Dec 73:375
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
  TR:138:474
Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242
  TR:138:419
The Nuclear Fuel Cycle and Waste Production, Harvey F. Soule, Preprint No.2093, Oct 73
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73: 1
Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164
Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343
Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40
  Dsc: Orville T. Magoon, CE:Mar 73:87; G. V. Eckenfelder, J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45
  TR:138:531
Turbine Generator Vibrations as Induced into a Barge Mounted Nuclear Power Plant, Robert J. McCaffery and Charles M. Johnson, Preprint No.1978, Apr 73
Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Nuclear Reactor Containment
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125: 9697
Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714

Nuclear Reactors
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242
  TR:138:419
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Numerical Analysis
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652
Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72: 47:8717
  TR:138:96
Elastic-Plastic Buckling of Anisotropic Plates, Lawrence L. Durocher and Anthony N. Palazotto, Preprint No.1997, Apr 73
Elastic Waves in Half-Space with Thin Barrier, Jacob Aboudi, EM1:Feb 73:69:9536
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467
Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
  TR:138:176
Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
  TR:137:1040
Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056
Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861
Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141: 8738
  TR:138:144
Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12: Dec 72:2769:9453
  TR:138:587
Watershed as a Semi-Infinite Storage Reservoir, Vit Klemes, Preprint No.1895, Jan 73

Numerical Integration
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260
TR:138:495

Nutrients
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
TR:138:520

Nutrition
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
TR:138:482

Oak Wood
Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788

Obituaries of Members
See Name of Deceased Member in Name Index

Observation
Long Term Observations on Highway Bridges, Charles F. Galambos, Preprint No.1960, Apr 73

Ocean Currents
About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
TR:138:574
A Field Laboratory for Stratified Flow Studies, P. C. Chang and A. Lin, ISSF:Aug 72:501
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261

Ocean Engineering
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372
TR:138:19
Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72:1817:9127
TR:138:388
Fluid-Dynamic Consideration of Bottom Materials, Hormoz Pazwash and James M. Robertson, HY9:Sept 71:1317:8374
TR:138:18
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
TR:138:177
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
TR:138:371
Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698

Oceans
About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451

Ocean Waves
Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889
TR:138:317
Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954
Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Probabilities For Highest Wave In Hurricane, Leon E. Borgman, WW2:May 73:185:9705
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318
TR:138:512
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
TR:138:371
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532
Wave Transmission by Overtopping, Ralph H. Cross and Charles K. Sollitt, WW3:Aug 72:295:9137
TR:138:457
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, Preprint No.2018, Apr 73

Office Equipment
The Programmable Calculator: A Place In Civil Engineering, Eugene E. Dallaire, CE:Feb 72:70
TR:138:106

Offsets
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE:Jan 72:71
TR:138:58

Offshore Completion
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
TR:138:60

Offshore Drilling
Structures for Undersea Exploration, Lev Zetlin, I. Paul Lew and Richard L. Tomasetti, Preprint No.1914, Jan 73

Offshore Platforms
Basis for Tubular Joint Design Codes, Peter W. Marshall and A. Anthony Toprac, Preprint No.2008, Apr 73

Offshore Structures
Basis for Tubular Joint Design Codes, Peter W. Marshall and A. Anthony Toprac, Preprint No.2008, Apr 73
Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73:81
Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066
TR:138:391
The Engineer: Public Policy and Petroleum Pipelines, P. N. Gammelgard, Preprint No.2111, Oct 73
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62
Hydrography and the Engineer, Colin G. McQ Weeks, SU1:Sept 73:1:9981
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563

Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
TR:138:172
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10: Oct 73:2011:10091
Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
TR:138:177
Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199: 9716
Planning Aspects for Variable and Fixed Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73
Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59: 9844
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
TR:138:155
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Trends in Offshore Airports, Richard D. Harza, TE4: Nov 72:985:9343
TR:138:497
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793

Ohio

Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125: 9697
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434

Oil Industry

Oil for the East Coast -- What, Where and Why, Edward Symonds, Preprint No.2078, Oct 73

Oils

Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79
TR:138:415

Oil Spills

The Engineer: Public Policy and Petroleum Pipelines, P. N. Gammelgard, Preprint No.2111, Oct 73
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73: 245:9665
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930

Oil Storage

Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73: 81
Environmental Considerations Applicable to Petroleum Terminals, Billy E. Smith, Preprint No.2067, Oct 73
Oil for the East Coast -- What, Where and Why, Edward Symonds, Preprint No.2078, Oct 73
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73

Oil Wastes

Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73: 245:9665
Oil Boom for Emergency Harbor Use, Ralph H. Cross and John J. Cunningham, WW1:Feb 73:27: 9531

Oily Water

Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
TR:138:324
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711

Oklahoma

Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653

Open Channel Flow

Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Brink Depth for Trapezoidal Broad-Crested Weir, Birendra N. Neogy, HY12:Dec 72:2171:9427
TR:138:582
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2: Feb 73:259:9542
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482
Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal Eroman Unny, HY5:May 73:713:9723
Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73: 2217:10194
Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869
TR:137:871
Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987
TR:138:12
Generalized Discharge Relations for Cutthroat Flumes, Gaylord V. Skogerboe, Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
TR:138:601
Height of Sand Dunes in Open Channel Flows, Mohammad Akram Gill, HY12:Dec 71:2067:8612
TR:137:967
Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808
TR:138:271
Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
TR:138:40
Linear Programming and Channel Flow Identification, William W-G. Yeh and Leonard Becker, HY11:Nov 73:2013:10177

Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195:9479

Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB:Aug 73:43

Open-Channel Flow Equations Revisited, Ben Chie Yen, EM5:Oct 73:979:10073

Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB:Aug 73:21

Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3:July 72:363:9051
TR:138:432

Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1

Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415

Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236

Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912
TR:138:296

A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130

Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506

Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056

Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12:Dec 72:2191:9456
TR:138:597

Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581

Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
TR:138:87

Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466

Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535

Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499

Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, Preprint No.2039, July 73

Operations

BART in Operation -- New Innovations in Rapid Transit, William A. Bugge, Preprint No.2060, July 73

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenanee, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71:601:8613
TR:138:76

Operation and Maintenance of Irrigation and Drainage Systems: Section III. - By the Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Robert L. Taylor, Chmn., IR3:Sept 73:237:10014

Operations Research

Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Use of Simulation in Airport Planning and Design, Dana E. Low, Preprint No.2038, July 73

Optics

Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
TR:138:525

Optimization

Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
TR:138:202

Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606

Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246

Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578

Cost Optimization of Welded Plate Girders, Natarajan Annamalai, Albert D.M. Lewis and John E. Goldberg, ST10:Oct 72:2235:9258
TR:138:495

Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050

Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191

Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470

Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804

Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202

Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
TR:138:528

Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803

Irregular Regions and Constrained Optimization, Edward Angel, EM3:June 73:581:9819

Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933

Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021

Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304
TR:138:532

Nonconvex Structural Optimization Problems, George I.N. Rozvany, TN: EM1:Feb 73:243:9528

Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041

Optimization, Akbar R. Tamboli, TB:73:II-14-239

Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
TR:138:409

Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650

Optimization of Multiple Reservoir System, William J. Trott and William W-G Yeh, HY10:Oct 73:1865:10065

Optimization of Steel-Building Components, State-of-Art Report 4, Jan Brodka and Josef Wilbik, TB:73:II-14-201

Optimization of Structures, N. Khachaturian, TB:73:II-14-233

Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926

Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72: 249:8645
TR:138:117

Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091
TR:138:343

Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
TR:138:97

Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722

Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185

Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615

Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73: Ib-9-889

Reliability of Structural Systems, Fred Moses, Preprint No.2023, Apr 73

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
TR:138:369

Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646

Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934
TR:138:242

Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541: 9864

Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003

Optimum Design

Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043: 9195
TR:138:447

On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245
TR:138:480

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
TR:138:513

Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337: 9404
TR:138:538

Unified Approach to the Theory of Plastic Structures, M. A. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
TR:138:466

Oregon

Construction of the Fremont Bridge, R. O. Cunningham, Hacik Erzurumlu and Richard A. Leber, Preprint No.1968, Apr 73

First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258

Oregon Gets a Segmental Post-Tensioned Bridge, L. F. Pierce, CE:Mar 72:67
TR:138:151

Organic Matter

Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
TR:138:435

Organic Soils

Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873

Organizations

Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
TR:138:289

Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613
TR:138:76

Organization Theory

Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9

Orientation

Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
TR:138:340

Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518
TR:138:62

Orifices

Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73: 417:9605

Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
TR:138:151

Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465

Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11: Nov 72:2015:9370
TR:138:556

Orthogonal Functions

Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617

Orthotropic Plate

Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013
TR:138:315

Frequency Analysis of Tapered Orthotropic Plates, Jayaraman Ramachandran, EM1:Feb 72:1:8696
TR:138:68

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514

Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143

Orthotropic Bridge Floor Beam Design, Conrad P. Heins, Jr. and Peter G. Perry, Preprint No.1925, Apr 73

Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72: 1499:9450
TR:138:602

Orthotropism

Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808

Oscillations
An Electro-Optical Deflection Measuring Device, Robert A. Crist, Richard Anthony Marshall and Harold I. Laursen, Preprint No.2031, Apr 73
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175

Oscillators
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73:715:9918

Osmosis
Chemico/Osmotic Effects in Fine-Grained Soils, James K. Mitchell, James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678

Outfall Sewers
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
TR:138:574
The Outfall Sewer Story, Edward B. Fitzpatrick, Jr., Preprint No.2107, Oct 73
St. Louis Cleans up the Mississippi, CE:May 72:61
Dsc: Eugene T. Jensen, CE:Aug 72:41; S. J. Fenves, F. C. McMichael and C. L. Dym, CE: Aug 72:41; Oskar S. Bray, CE:Sept 72:94; John M. Henderson, CE:Nov 72:62; Edgar T. Moore, Jr., CE:Nov 72:62; LeRoy VanKleeck, CE:Jan 73:57; Harold H. Munger, CE:Jan 73:84
TR:138:259

Outlets
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680
Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244

Overconsolidation
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
TR:138:457

Overfalls
Free Overfall As Flow Measuring Device, Sebastian W. Bauer and Walter H. Graf, IR1:Mar 71:73:7987
TR:138:12

Overflow
Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649
TR:138:108

Overflows
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626

Overland Flow
Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
TR:138:506
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
TR:138:13
Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773
TR:138:196
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733
Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Don L. Chery, Jr., HY9:Sept 73:1337:9990
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
TR:138:145

Overloads
Boston Collapse, William A. Litle, STF:73:99
Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73:521:9907

Overtopping
Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division, Russell W. Revell, Chmn., HY2:Feb 73:337:9571
Wave Transmission by Overtopping, Ralph H. Cross and Charles K. Sollitt, WW3:Aug 72:295:9137
TR:138:457

Oxidation
Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
TR:138:156

Oxygen
Gas Transfer Kinetics of Pure Oxygen System, James A. Mueller, Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
TR:138:156
Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
TR:138:326

Oxygenation
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707
Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710
TR:138:181

Oxygen Consumption
Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
TR:138:326

Oxygen Content
Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2: Apr 72:325:8852
TR:138:348

Oxygen Demand
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
TR:138:488

Oxygen Sag
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Oxygen Transport Mechanisms
Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
TR:138:360

Pakistan
Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
TR:138:594
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, Preprint No.2039, July 73

Pallets
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
TR:138:212

Panama Canal
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106

Panels
Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9: Sept 72:1943:9207
TR:138:465
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870

Paper Mills
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443
TR:138:576

Parabolas
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
TR:138:163

Parabolic Antennas
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Parabolic Bodies
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72: 1161:8922
TR:138:280

Parametric Hydrology
Linear Programming and Channel Flow Identification, William W-G. Yeh and Leonard Becker, HY11:Nov 73:2013:10177
Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602

Parking Areas
Bunker Hill-Los Angeles Parking and People Mover Program, Martin A. Wallen, Preprint No.2090, Oct 73
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
TR:138:54
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72: 769:9355
TR:138:527
New Concepts in Urban Parking, John C. Schoon, Preprint No.2043, July 73
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932

Parking Facilities
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Bunker Hill-Los Angeles Parking and People Mover Program, Martin A. Wallen, Preprint No.2090, Oct 73
Clinton Square, Welton Becket and Associates, TB: 73:C-P-338
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
TR:138:54
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72: 769:9355
TR:138:527
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Nauru House, Perrott, Lyon, Timlock & Kesa, TB: 73:C-P-428
New Concepts in Urban Parking, John C. Schoon, Preprint No.2043, July 73
Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892
TR:138:187
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
TR:138:440
Valley Center, Welton Becket and Associates, TB: 73:C-P-318
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394

Parks
Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
TR:138:182
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
TR:138:404
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
TR:138:478
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74

Particle Density (Concentration)
Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73: 411:9945

Passenger Transportation
Anticipating Urban Environmental Concerns for the Means of Transportation, Lawrence A. Wills, Preprint No.2101, Oct 73
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Bunker Hill-Los Angeles Parking and People Mover Program, Martin A. Wallen, Preprint No.2090, Oct 73
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, Preprint No.2040, July 73
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
TR:138:469
Dallas-Ft. Worth: World's Largest, Best Planned Airport, Eugene E. Dallaire, CE:July 73:53
Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320
TR:138:456
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558

Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
TR:138:71
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
TR:138:434
Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
TR:138:79
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
TR:138:579
On Two Means of Alleviating Rush-Hour Crowding, Charles Libove, Preprint No.2033, July 73
Pedestrian System Planning for High Rise Buildings, John J. Fruin, Preprint No.2055, July 73
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571:9960
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
TR:138:170
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
TR:138:566
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
TR:138:484
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955

Pavement Bases

Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
TR:138:114
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724

Pavements

Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE1:Feb 72:37:8699
TR:138:36
Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695
TR:138:16
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
TR:138:505
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260
Design and Evaluation of Aircraft Pavements -- 1971, Frederick R. Martin, Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785: 10154
Dsc, Design of Functional Pavements, Ernest J. Barenberg, CE:Apr 73:40
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363
TR:138:541
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
TR:138:561
Modern Pavement Evaluation Techniques, Bernard A. Vallerga and Robert G. Lee, ASC73:Mar 73:63
Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56
Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541
Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51
TR:138:86
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193

Paving

Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
TR:138:402

Pedestrians

Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63

Penetration

Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
TR:138:104
Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73: 1033:10/48

Penetration Tests

Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73: 1033:10/48

Pennsylvania

Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Centre Square, Vincent G. Kling and Partners, TB: 73:C-P-390
Continuing Education in Mid-Career: The Graduate Public Works Program at Pittsburgh, William D. Brinckloe, Preprint No.2054, July 73
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
TR:138:189
Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Penn Center, Vincent G. Kling and Partners, TB:73: C-P-380
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452

United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Pensions
ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93
Superior Pension Plan Helps Attract Employees, Jack L. Schoustra and Richard S. Summerhays, CE:Jan 73:58
Dsc: John H. Meursinge, CE:Apr 73:77

Penstocks
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9729
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
Penstock Construction at Grand Coulee Dam, Wayne H. John, CE:Dec 73:52
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1:8959
TR:138:61

Percussion Drilling Rigs
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613

Perforating
Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059

Performance
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111
Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211
Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Safety Performance Standards for Highway Service, Peter G. Koltnow, Preprint No.1982, Apr 73
Shallow Foundations, Douglas C. Moorhouse, PES:73:II-71
Shallow Foundations -- Panel Presentation, Carl B. Crawford, PES:73:III-165
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, Preprint No.1999, Apr 73
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007

Performance Evaluation
Client Relations, Chandler P. Young, EPMT:73:63

Periodic Functions
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
TR:138:155

Perlite
Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953
TR:138:305

Permafrost
Alaska Builds Highway Over Muskeg and Permafrost, John C. Becker, CE:July 72:75
TR:138:349
Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77
TR:138:215
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
TR:138:276
The Trans-Alaska Pipeline Story, E. L. Patton, TE1:Feb 73:139:9573

Permeability
Basin Recharge of the Ogallala Aquifer, Vladimir S. Aronovici, Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65:8760
TR:138:104
Boundary Effects on Stability of Structures, A. S. Chawla, HY9:Sept 72:1557:9199
TR:138:481
End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3:Mar 72:541:8794
TR:138:216
Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169
TR:137:978
Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and T. L. Brekke, RM14:73:481
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784
Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73:583:9865
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72:927:9443
TR:138:576
Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579:8947
TR:138:321
Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409
Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197

Personnel
The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64
TR:138:98
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
TR:138:527
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95

Personnel Development
Summary Report of Questionnaire on Construction Inspection, by the Task Committee on Inspection of the Construction Division, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
TR:138:524

Personnel Management
Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66
TR:138:48
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Perturbation Theory
Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476

Petroleum Pipelines
The Engineer: Public Policy and Petroleum Pipelines, P. N. Gammelgard, Preprint No.2111, Oct 73
Environmental Considerations Applicable to Petroleum Terminals, Billy E. Smith, Preprint No.2067, Oct 73
Product Segregation on Liquid Petroleum Pipelines, John B. Benear, Preprint No.2056, July 73
The Trans-Alaska Pipeline Story, E. L. Patton, TE1: Feb 73:139:9573

Petroleum Transportation
Environmental Considerations Applicable to Petroleum Terminals, Billy E. Smith, Preprint No.2067, Oct 73
Oil for the East Coast -- What, Where and Why, Edward Symonds, Preprint No.2078, Oct 73

Philippine Islands
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
TR:138:187

Philippines
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
TR:138:494

Philosophy
Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
TR:138:53
The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41
History and Philosophy of Tall Buildings, Rowland J. Mainstone, TB:73:Ia-1-264

Phosphates
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607: 10048

Phosphorus Compounds
Anaerobic Digestion of Sludge Containing Iron Phosphate, Sudershan Malhotra, Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
TR:138:74

Photoelasticity
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Photogrammetric Surveys
Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518
TR:138:62
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
TR:138:77

Photogrammetry
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
TR:138:604
Civil Engineering Applications of Remote Sensing, David J. Barr and Wesley P. James, Preprint No.2072, Oct 73
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72: 219:9322
TR:138:470
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
TR:138:393
Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518
TR:138:62
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165: 9768
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
TR:138:572
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
TR:138:228
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
TR:138:525
Pipeline Location: Bibliography Supplement, Committee on Pipeline Location of the Pipeline Division, Edward T. Marsh, TE2:May 73:363:9739
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
TR:138:92
Task Committee Report on Geological Conditions Affecting Pipeline Location, Clarence O. Walker, Preprint No.2036, July 73
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
TR:138:550
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63: 10030

Photographs
Photographs of Tall Buildings, State-of-Art Report 2, N. Abaya and E. Ozer, TB:73:C-AC14-113

Photography
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
TR:138:502
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
TR:138:525

Phreatic Lines
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73: 603:9912
Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333: 10197

Phreatophytes
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
TR:138:570

Physical Fitness
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120

Physics
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959
TR:138:61

Piers

Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740

Development of Nonpneumatic Caisson Engineering, David F. Mayo, CO1:July 73:155:9838

Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
  TR:138:439

Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
  TR:138:417

Pile Bearing Capacities

Axial Capacity, Lymon C. Reese, PES:73:III-201

Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63
  TR:138:203

Pile Drivers

Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201:9188
  TR:138:475

Pile Driving

Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
  TR:138:219

Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207

Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3

First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
  TR:138:499

Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026

Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715

Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
  TR:138:487

The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
  TR:138:337

Performance of Pile Driving Hammers, Frank Rausche and George G. Goble, CO2:Sept 72:201:9188
  TR:138:475

Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844

Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
  TR:138:481

Pile Extraction

Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207

Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
  TR:138:79

Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077

Pile Foundations

Breakwater Built With Concrete Piles, Thomas F. Plodowski, CE:Apr 72:80
  TR:138:219

Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207

Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111

Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211

Experiments in Expandable Tip Piling, Thomas L. Adams and Fred C. Stepanich, SM11:Nov 73:957:10161

Frost Heaving of Piles in Permafrost, James Allen and Robert W. Huck, CE:Apr 72:77
  TR:138:215

The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
  TR:138:337

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105

Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
  Dsc: Murray I. Brill, CE:Sept 72:61; James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE:Dec 72:58
  TR:138:284

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
  TR:138:481

Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63
  TR:138:203

Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40
  TR:138:123

Pile Groups

Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105

Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579

Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), Murray I. Brill, CE:June 72:56
  Dsc: Murray I. Brill, CE:Sept 72:61; James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE:Dec 72:58
  TR:138:284

Settlements of Pile Groups, Bengt B. Broms, PES:73:III-181

Pile Lateral Loads

Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
  TR:138:243

Pile Loading Tests

Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903

Torque Shear Test For Cylindrical Friction Piles, Ulrich W. Stoll, CE:Apr 72:63
  TR:138:203

Piles (Foundations)

Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740

Axial Capacity, Lymon C. Reese, PES:73:III-201

Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
  TR:138:243

Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075

Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925

Distribution of Wind Loads to Soils, State-of-Art Report 2, S. V. De Simone, TB:73:Ia-11-881

Effects of Foundations on Adjacent Structures, State-of-Art Report 3, E. Horvat and Cornelius van der Veen, TB:73:Ia-11-905

Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3

First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
TR:138:499
High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
TR:138:79
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
TR:138:439
New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712
Settlements of Pile Groups, Bengt B. Broms, PES:73:III-181
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545

Pile Spacing
Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105

Pile Structures
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
TR:138:60
Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
TR:138:481

Pile Tests
Construction of Deep Foundations, William F. Swiger, PES:73:III-207
Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3
Lateral Load Tests on Full-Scale Pile Groups, Jai B. Kim, Robert J. Brungraber and C. H. Kindig, PES:72:I-1105

Pilots (Personnel)
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55

Pilot Training
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55

Pipe Cover
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
TR:138:280

Pipe Design
Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70
Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
TR:138:298
Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974
Santa Ana Valley Pipeline as a Structure, Malcolm N. Stephens and James U. McDaniel, Preprint No.1946, Apr 73
Structural Considerations in the Design of Submarine Pipelines, Sam W. Small, Preprint No.1974, Apr 73

Pipe Flow
Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73:417:9605
Cavitation in Butterfly Valves, James W. Ball and J. Paul Tullis, HY9:Sept 73:1303:9993
Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874
Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593
TR:138:69
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323
Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70
Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
TR:138:298
Digital Computers in Circular Culvert Design, Bobby E. Price and Frank D. Masch, TE3:Aug 72:547:9117
TR:138:369
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
TR:138:149
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
TR:138:545
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
TR:138:241
Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
TR:138:167
Hydraulic Network Analysis Using Linear Theory, Don J. Wood and Carl O.A. Charles, HY7:July 72:1157:9031
TR:138:366
Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786
Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
TR:138:312
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472
Orifice Losses for Laminar Approach Flow, Nagar S. Lakshmana Rao and Kalambur Sridharan, HY11:Nov 72:2015:9370
TR:138:556
Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060
TR:138:381
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72:1117:9014
TR:138:359
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
TR:138:179
Uniform Irrigation with Low-Pressure Trickle Systems, Lloyd E. Myers and Dale A. Bucks, IR3:Sept 72:341:9175
TR:138:436

Pipe Joints
Basis for Tubular Joint Design Codes, Peter W. Marshall and A. Anthony Toprac, Preprint No.2008, Apr 73
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Dsc: James F. Sato, CE:Sept 72:57
TR:138:345

Pipe Laying
The Art of Pipeline Anchoring, Brian C. Webb, Preprint No.2037, July 73

Pipelines
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
The Art of Pipeline Anchoring, Brian C. Webb, Preprint No.2037, July 73

Basis for Tubular Joint Design Codes, Peter W. Marshall and A. Anthony Toprac, Preprint No.2008, Apr 73
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
  Dsc: James F. Sato, CE:Sept 72:57
  TR:138:345
Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440
  TR:138:32
Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
  TR:138:462
Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593
  TR:138:69
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
  TR:138:573
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, Preprint No.1918, Jan 73
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070
The Development of an Instrument Pig, B. VerNooy, Preprint No.2045, July 73
Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79
  TR:138:415
Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE: Feb 73:45
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
  TR:138:130
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Douglas James, TE3:Aug 73:637:9933
New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2: May 73:431:9688
New Culvert Carries Creek Underneath Canal, Alfred R. Pagan, CE:Oct 72:50
  TR:138:440
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
  TR:138:280
Pipeline Location: Bibliography Supplement, Committee on Pipeline Location of the Pipeline Division, Edward T. Marsh, TE2:May 73:363:9739
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959
  TR:138:61
Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, Preprint No.2026, Apr 73
Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
  TR:138:159
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
  TR:138:353
Santa Ana Valley Pipeline as a Structure, Malcolm N. Stephens and James U. McDaniel, Preprint No.1946, Apr 73
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
  TR:138:276
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, Preprint No.1983, Apr 73
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014
  TR:138:359
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
  TR:138:46
Structural Considerations in the Design of Submarine Pipelines, Sam W. Small, Preprint No.1974, Apr 73
Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549
Swimming Performance of Arctic Grayling, Frederick J. Watts and Craig MacPhee, HYB:Aug 73:11
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574
Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167: 9500
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
  Dsc: William G.G. Blakney, CE:July 73:22

Pipeline Terminals

Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79
  TR:138:415

Pipeline Transportation

Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
  TR:138:573
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, Preprint No.1918, Jan 73
The Development of an Instrument Pig, B. VerNooy, Preprint No.2045, July 73
Engineering the Trans-Alaska Pipeline, CE:Sept 72: 79
  TR:138:415
Environmental Aspects of Pipeline Route Selection, Francis J. Stastny, Preprint No.2076, Oct 73
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73: 521:9907
Marginal Economics Applied to Pipeline Design, J. Michael Osborne and L. Dougla James, TE3:Aug 73:637:9933
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73: 245:9665
Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
Product Segregation on Liquid Petroleum Pipelines, John B. Benear, Preprint No.2056, July 73
Research on Pipeline Flotation, Albert J. Bonar and Osman I. Ghazzaly, TE2:May 73:211:9718
Some Problems of Pipeline Route Selection, Frederick E. Culvern, George H. Watson and J. E. Wilson, Preprint No.2057, July 73
Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
  TR:138:584
Task Committee Report on Geological Conditions Affecting Pipeline Location, Clarence O. Walker, Preprint No.2036, July 73
The Trans-Alaska Pipeline Story, E. L. Patton, TE1: Feb 73:139:9573
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Pipe Linings
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
TR:138:462

Pipes
Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215
Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804
Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121
General Considerations of Flow in Branching Conduits, Thomas J. Rhone, HYB:Aug 73:205
Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58
Dsc: Frank M. Naglich, CE:June 73:26
TR:138:455
Some Basic Concepts on Flow in Branching Conduits (Abstract), James R. Villemonte, HYB:Aug 73:203
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
TR:138:584

Piping (Erosion)
Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589

Piping Systems
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804
Flow Through Trifurcations and Manifolds, Eugen Ruus, HYB:Aug 73:227
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151

Placement
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
TR:138:429

Plane Structures
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
TR:138:499

Planing
Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73:485:10179

Planning
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
TR:138:154
Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064
TR:138:463
City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72:
TR:138:266
Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
TR:138:290
Competing Values in Water Development -- The Congressional Viewpoint, Daniel A. Dreyfus, Preprint No.1894, Jan 73
Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39:10015
Construction Planning in South East Asia, Omar E. Rood and John L. Richards, CO2:Sept 72:331:9217
TR:138:585
Cost Estimating Model for Rural Interstate Highways, John Whitman and Frederick J. Wegmann, TE3:Aug 72:531:9138
TR:138:402
Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
TR:138:34
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
The Education of an Engineer (A Continuing Story), James E. Crews and Charles C. McCloskey, III, PP4:Oct 72:543:9267
TR:138:544
Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589
TR:138:112
Engineering the Trans-Alaska Pipeline, CE:Sept 72:79
TR:138:415
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
TR:138:282
Environmental Impact Statements Discussed, CE:Feb 73:61
Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
TR:138:422
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1:Jan 72:33:8657
TR:138:107
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2:Dec 71:149:8568
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959
Goals for Dallas Program, Erik Jonsson, CE:Sept 72:58
Dsc: Mark Jordan, CE:May 73:45
TR:138:394
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155

Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
TR:138:167
Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910
TR:138:241
Introduction -- Planning and Design of Tall Buildings: Societal Aspects, Thomas C. Kavanagh, Preprint No.2066, Oct 73
Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1
The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938
Managerial Functions; Responsibilities, and the Team Approach, Donald F. Keener, EPMT:73:9
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
TR:138:546
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972
Planning Aspects for Variable and Fixed Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73
Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
TR:138:255
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Project Planning, John M. Shields, SU1:July 72:61:9041
TR:138:202
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076
The Quality System as Seen by the Government Engineer-Administrator, Ellis L. Armstrong, Preprint No.1882, Jan 73
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898
TR:138:281
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353
Scheduling Game for Construction Industry Training, David Scott and Graham Cullingford, CO1:July 73:81:9832
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107
Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
TR:138:557
Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
TR:138:54
Theory and Practice of Public Participation in Planning, George E. Willeke, Preprint No.1871, Jan 73
Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193
Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543:9174
TR:138:446

Plants
Notes on Trees and Tree Planting, Hans F. Bell, CE: July 73:77
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
TR:138:482
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783
Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2: Apr 72:325:8852
TR:138:348

Plastic Analysis
Autostress Design of Steel Structures, Geerhard Haaijer, Preprint No.1930, Apr 73
Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
TR:137:935
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
TR:138:499
Elastic-Plastic Buckling of Anisotropic Plates, Lawrence L. Durocher and Anthony N. Palazotto, Preprint No.1997, Apr 73
Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383
Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399
Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
TR:138:59
Unified Approach to the Theory of Plastic Structures, M. A. Cohn, Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
TR:138:466

Plastic Design
Fully Plastic Analysis and Design, State-of-Art Report 4, A. L.L. Baker, TB:73:III-22-415
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337:9404
TR:138:538
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049
Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72:327:8675
TR:138:139

Plasticity
Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73:433:9816
Dynamic Response of Nonlinear Media at Large Strains, Joseph H. Heifitz and Carl J. Costantino, EM6:Dec 72:1511:9451
TR:138:603
Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
TR:138:540

Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435
TR:138:564
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72:47:8717
TR:138:96
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Finite Earthquake-Response of Inelastic Structure, Chi-Mou Ni and Lawrence H.N. Lee, EM6:Dec 72:1529:9429
TR:138:549
Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463
Nonisothermal Kinematic Hardening Law in Plasticity, Tse Yung Chang, TN: EM2:Apr 73:423:9641
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72:1697:9154
TR:138:423
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
TR:138:59
Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72:1769:9148
TR:138:409
Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020
TR:138:326
Yielding of Fiber Reinforced Tresca Material, John D. Helfinstine and Richard H. Lance, EM4:Aug 72:849:9132
TR:138:389

Plastic Pipes
New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2:May 73:431:9688

Plastic Properties
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793:10057
Elastic-Plastic, Large Deformation Response of Soil to Footing Loads, Hugh L. Davidson and Wai F. Chen, Preprint No.2070, Oct 73
Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071
Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6:Dec 72:1417:9446
TR:138:586

Plastics
Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
TR:138:427
Correlation of Test Results with Theoretical Analysis for Plastic Structures, Timothy J. Fowler, Preprint No.1955, Apr 73
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2:May 73:431:9688
Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
TR:138:360
Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579:8947
TR:138:321
Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561:8990
TR:138:414
Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143
TR:138:399
Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, Preprint No.2018, Apr 73

Plastic Theory
Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641
TR:138:106

Plates
Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889
TR:138:317
Analysis of Space Truss as Equivalent Plate, William R. Flower and Lewis C. Schmidt, ST12:Dec 71:2777:8569
TR:138:38
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, Ben Kato and Le-Wu Lu, TB:73:II-16-463
Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
TR:138:158
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630
TR:138:67
Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485
Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
TR:138:439
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
TR:138:590
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
TR:138:566
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
TR:138:444
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
TR:138:297
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau Kai Cheung, EM5:Oct 72:1225:9233
TR:138:443
Viscoelastic Plate on Poroelastic Foundation, Eugene L. Marvin, EM4:Apr 72:911:9133
TR:138:395

Plates (Structural Members)
Bending of Spectoral Plates with Clamped Edges, John W. Weber, TN: EM2:Apr 73:440:9641

Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Collapse of Clamped Variable Thickness Circular Plates, Helmut M. Haydl and Archibald N. Sherbourne, TN: EM6:Dec 73:1309:10187

Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670
TR:138:134

Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774

Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464

Elastic-Plastic Buckling of Anisotropic Plates, Lawrence L. Durocher and Anthony N. Palazotto, Preprint No.1997, Apr 73

Experimental Study of Partially Loaded Plates, Anthony N. Palazotto, Gary Uthenwoldt and Michael Stankosky, Preprint No.2030, Apr 73

Finite Element Method for Elastic Plastic Plates, Ted Belytschko and Milan Velebit, EM1:Feb 72:227:8724
TR:138:103

Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
TR:138:223

Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, Preprint No.2091, Oct 73

Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644
TR:138:113

Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514

Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045
TR:138:1

Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777

Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
TR:138:59

Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
TR:138:526

Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
TR:138:237

Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744

Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53:9471

Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616

Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, TN: EM4:Aug 73:907:9898

Plotters

Computer-Driven Plotters: Will They Make the Draftsman Extinct?, Eugene E. Dallaire, CE:Feb 73:31
Dsc: Morton B. Lipetz, CE:June 73:22

Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45

Plotting

Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1:Feb 73:201:9576

Plumbing

Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327

Plumes

Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117:8985
TR:138:286

Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189

Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3

Model Versus Field Data on Thermal Plumes from Power Stations, L. C. Neale and George E. Hecker, ISSF:Aug 72:399

Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145

Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992

Pneumatic Systems

Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363

Point Set Topology

Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809
TR:138:191

Poland

Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
TR:138:580

External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717

Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149

Poles

How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848

Poles (Supports)

Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73

Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632
TR:138:77

Political Aspects

Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
TR:138:35

Dsc, Political Contributions, John E. Murray, CE:Nov 73:20

Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
TR:138:39

Political Constraints

ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77

Political Objectives

The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667

Engineering Policies, Politics and Pragmatism, Robert F. Baker, Preprint No.2006, Apr 73

Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64
Dsc: Harold E. Weber, CE:Nov 73:22

Political Science
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64
  Dsc: Harold E. Weber, CE:Nov 73:22

Pollution
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
  TR:138:520
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819
  TR:138:296
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
  TR:138:324
Effects and Control of Highway Traffic Noise, James E. Shahan and George W. Kamperman, TE2:May 73:307:9726
The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
  TR:138:352
Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361: 8811
  TR:138:282
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
  TR:138:499
Impact on Industries of Air Pollution Control Legislation -- A Panel Discussion, David M. Anderson, Preprint No.2109, Oct 73
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253: 9795
Noise -- The Subtle Polluter, James D. Collins, Preprint No.2005, Apr 73
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73: 923:10200
Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
  TR:138:39
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
  TR:138:136

Pollution Abatement
St. Louis Cleans up the Mississippi, CE:May 72:61
  Dsc: Eugene T. Jensen, CE:Aug 72:41; S. J. Fenves, F. C. McMichael and C. L. Dym, CE: Aug 72:41; Oskar S. Bray, CE:Sept 72:94; John M. Henderson, CE:Nov 72:62; Edgar T. Moore, Jr., CE:Nov 72:62; LeRoy VanKleeck, CE:Jan 73:57; Harold H. Munger, CE:Jan 73:84
  TR:138:259
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70
  TR:138:262

Pollution Control
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
  TR:138:375
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
  Dsc: Carmen F. Guarino, CE:Mar 73:71; Martin Lang, CE:Mar 73:71
  TR:138:427
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
  TR:138:474
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
  TR:138:289
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
  Dsc: Floyd A. Skow, CE:Jan 73:84
  TR:138:398
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
  TR:138:231
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64
  Dsc: Harold E. Weber, CE:Nov 73:22
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
  TR:138:244

Polyethylene
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78
Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58
  Dsc: Frank M. Naglich, CE:June 73:26
  TR:138:455
Treated Wood Foundations for Houses, CE:Oct 73: 41

Polygons
Torsion of Bars of Regular Polygonal Cross Section, Enrique Romanelli, Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809
  TR:138:191

Polymers
Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
  TR:138:149

Polyurethane Resins
Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579: 8947
  TR:138:321

Polyvinyl Chloride
Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70
  Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
  TR:138:298
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE: Mar 72:42
  TR:138:127

Ponding
Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767
Structural Failures, Jack R. Janney, STF:73:11

Population
Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB: 73:Ib-10-919
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
  Dsc: Raphael G. Kazmann, CE:Dec 73:22
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
  TR:138:547
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
  TR:138:390

Population Growth
The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
  TR:138:352
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64
  Dsc: Harold E. Weber, CE:Nov 73:22

Stochastic Population Projection at Design Level, Peter M. Meier, SA6:Dec 72:883:9436
TR:138:557
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
TR:138:358

Pore Pressure
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., Preprint No.1952, Apr 73

Pores
Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784

Pore Size
Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73:583:9865

Pore Water Pressure
Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372
TR:138:19
Consolidation Effects Around Driven Piles, D. Joseph Hagerty and John E. Garlanger, PES:72:I-1207
Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
TR:138:168
Construction Pore Pressure Dissipation in Earth Dams, Edward W. Gray, Jr., PES:73:III-295
Secondary Consolidation and Strength of a Clay, Chih-Kang Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald York, CE:Aug 73:56

Porosity
Hydraulic Modeling of Flow in Porous Media, J. C. Guitjens, Preprint No.1886, Jan 73

Porous Materials
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
TR:138:404

Porous Media
Consolidation of Porous Media with Non-Darcy Flow, James D. Westmann and Russell A. Westmann, EM6:Dec 73:1201:10211
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Drainage in Soils with Initial Gradient, Arun J. Valsangkar and Kanakatti Subramanya, IR2:June 72:309:8995
TR:138:383
Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784
Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546

Porous Media Flow
Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, Preprint No.1986, Apr 73
Consolidation of Porous Media with Non-Darcy Flow, James D. Westmann and Russell A. Westmann, EM6:Dec 73:1201:10211
Friction Factor and Reynolds Number in Porous Media Flow, Anat Arbhabhirama and Antonio A. Dinoy, HY6:June 73:901:9784
Hydraulic Modeling of Flow in Porous Media, J. C. Guitjens, Preprint No.1886, Jan 73
Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152
TR:138:425

Portland Cements
Research on an Extremely Rapid Setting High Strength Concrete, John E. Johnson, Donald O. Baehr and Robert J. Wenk, Preprint No.2097, Oct 73

Ports
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Port Structure Costs, Eugene L. Sembler, Preprint No.2013, Apr 73
Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700

Position (Location)
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63:10030
Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007

Potable Water
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103
TR:138:430

Potential Flow
Flow in Open Channels with Smooth Curved Boundaries, Mohammad S. Moayeri, HY12:Dec 73:2217:10194
Potential Flow at a Two-Dimensional Conduit Outlet, Mohammad S. Moayeri and Theodor S. Strelkoff, HY4:Apr 73:653:9680
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618

Power
Alternatives to the Heating and Evaporation of Groundwater While Still Satisfying the U.S. Energy Appetite, William E. Heronemus, Preprint No.1909, Jan 73
An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710
Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN: PO2:Nov 73:441:10115
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
Beaver Valley Containment Structure, Steven H. Popper, PO1:May 73:051:9709
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
Computer Model for Thermal Plume, Robert E. Barry and David P. Hoffman, PO1:June 72:117:8985
TR:138:286
Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
TR:137:1024

The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500

Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1: May 73:217:9741

The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702

Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, Donald C. Raney and Terry G. Arnold, PO1:May 73:139:9707

Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
TR:138:92

Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134

Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240
TR:137:989

Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349

Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125: 9697

Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
TR:138:175

Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
TR:137:1040

Hutchinson Island Nuclear Containment Structure, Ronald G. Moreland and Richard L. Bentley, PO1: May 73:041:9714

Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708

Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
TR:138:29

Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242
TR:138:419

Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696

New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93: 8981
TR:138:201

Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
TR:138:228

Optimization of Circulating Water System, R. S. Gupta and Bruce R. Webber, PO1:May 73:235: 9756

Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462

Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959
TR:138:61

Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
TR:138:469

Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145

Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142

Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164

Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140

Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141

Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, Preprint No.1999, Apr 73

Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405: 10169

Tarbela Dam Project, Pakistan, Wilson V. Binger, PO2:Oct 72:221:9265
TR:138:594

Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150

Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
TR:138:519

Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
TR:138:148

Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749: 8564

Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176

Power Lines

Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462

Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
TR:138:142

Power Loads

Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Powerplants

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340

Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4: Apr 72:311:8817
TR:138:224

Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
TR:138:571

Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323

Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
TR:137:1024

Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
TR:138:37

Dry-Type Hyberbolic Cooling Tower, Paul Rogers and Laszlo Heller, CE:Oct 72:56
TR:138:452

Environmental Consideration in the Design of Blowdown Discharge Systems, Adnan M. Alsaffar, Preprint No.2065, Oct 73

Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, Peter I. Yanev and Roland O. Marsh, SDNPF:Dec 73:397

Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
TR:138:29

New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
TR:138:201
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
TR:138:569
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
TR:138:364
Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
TR:138:603
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305:10145
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73:281:10164
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
TR:138:518
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE4:Aug 73:461:9936
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717
Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40
Dsc: Orville T. Magoon, CE:Mar 73:87; G. V. Eckenfelder, J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45
TR:138:531
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72:333:9259
TR:138:550
Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749:8564

Power Reactors (Nuclear)
Environmental Litigation: Lessons From the Courts, William K. Johnson, CE:Jan 72:55
Dsc: Melvin C. Sueltenfuss, CE:June 72:50; Stanley E. Degler, CE:May 72:48
TR:138:31

Power Spectra
An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733
TR:138:126

Power Supplies
Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181:9257
TR:138:525

Power System Operations
Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Precipitation (Atmospheric)
Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
TR:138:212
A Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., Preprint No.1896, Jan 73
Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983

Precipitation (Chemistry)
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946

Precipitation (Meteorology)
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171:9034
TR:138:373
Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249

Precipitation Gages
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
TR:138:291

Precision
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034

Predictions
Estimation Floods Small Drainage Areas in Montana, Eldon R. Dodge, HYB:Aug 73:395
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73:519:10188
Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73:383
Prediction of Load-Induced Dimensional Changes in Concrete, L. J. Parrott and J. M. Illston, Preprint No.1935, Apr 73
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5:May 73:729:9730
Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
TR:138:380
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332

Prefabrication
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157
Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585
Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
TR:138:526
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
TR:138:204
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889
Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
TR:138:368

Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Preheating
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48

Preloading
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald York, CE:Aug 73:56

Pressure
Analytical Determination of Pressure on Formwork, Myron Levitsky, EM3:June 73:551:9814
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
TR:138:445
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516
Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
TR:138:431

Pressure Distribution
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237
Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145
Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247

Pressure Gages
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72:2329:9325
TR:138:521

Pressure Gradients
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445
TR:138:579

Pressure Head
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
TR:138:301

Pressure Pipes
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
TR:138:87

Pressure Tunnels
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46

Pressure Vessels
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697

Pressurized Cabins
Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019
TR:138:322

Pressurized Water Reactors
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219

Prestressing
Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
TR:138:185
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615
Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415

Prestressing Steels
Design Concepts for Prestressed Steel Structures, Miloslav Tochacek, TB:73:II-19-883
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201

Pricing
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551

Priorities
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
State Water Rights Laws, William R. Walker, IR4:Dec 73:449:10217

Probability
Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB:73:Ib-10-919

Probability Distribution Functions
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931
Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165
TR:138:438

Probability Theory
Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128
TR:138:430
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246
Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
TR:138:601
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038

Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725
TR:138:110
German Code Requirements, Gert Konig, TB:73:Ib-10-1027
Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73
Illustrations of Safety Evaluation and Risk-Based Design, Bruce R. Ellingwood and Alfredo H.-S. Ang, Preprint No.2023, Apr 73
Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
TR:138:267
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195
TR:138:447
Modeling, Analysis and Updating of Uncertainties, Wilson H. Tang and Alfredo H.-S. Ang, Preprint No.2016, Apr 73
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501
Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638
TR:138:97
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119
TR:138:426
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
TR:138:528
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728
Probabilistic Design for Random Fatigue Loads, Paul H. Wirshing and Edward B. Haugen, EM6:Dec 73:1165:10223
Probabilistic Methods, Jack R. Benjamin, TB:73:Ib-10-1013
Probabilistic Modeling of Concrete Structures, Masanobu Shinozuka, EM6:Dec 72:1433:9448
TR:138:598
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328
TR:138:531
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Probabilities For Highest Wave In Hurricane, Leon E. Borgman, WW2:May 73:185:9705
Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822
TR:138:211
Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597:9915
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85
Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, Preprint No.2023, Apr 73
Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6:Dec 71:1625:8584
TR:138:38
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14:73:329
Safety Against Dynamic Forces, Masanobu Shinozuka, Preprint No.2323, Apr 73
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
TR:138:600
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
TR:138:214
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
TR:138:550
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, Preprint No.1958, Apr 73
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007
Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229
What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032

Problem Oriented Languages

Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
TR:138:397

Problem Solving

Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
Dsc: Charles W. Griffin, Jr., CE:May 72:40; Daniel B. Halton, CE:May 72:40; Ray R. Davis, CE:July 72:77; Michael A. Murphy, CE:Aug 72:64; Ernest T. Ianni, CE:Sept 72:61
TR:138:147
Goals for Dallas Program, Erik Jonsson, CE:Sept 72:58
Dsc: Mark Jordan, CE:May 73:45
TR:138:394

Proceedings

Dsc, Proceedings Of The ASCE Specialty Conference On Safety And Reliability Of Metal Structures, Phillip M. Schmidt, CE:June 73:32

Product Development

Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
TR:138:44

Production Capacity
Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
TR:138:458

Production Management
Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926

Productivity
Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
TR:138:502
Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
TR:138:458
Management the Lincoln Electric Way, CE:Jan 73:76
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
TR:138:482
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
TR:138:447

Professional Activities
Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
TR:138:239
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
TR:138:324
American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657
Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
TR:138:180
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith C. Crandall, PP3:July 73:307:9882
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
Budget Constraints and Multiobjective Planning, Arthur Maass and David C. Major, PP3:July 72:359:9064
TR:138:463
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
TR:138:191
Civil Engineering History: An Appraisal, Neal FitzSimons, PP3:July 73:327:9875
The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
TR:138:277
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659
TR:138:131
Computer Use in Civil Engineering, Robert L. Schiffman and E. Rex Krueger, PP2:Apr 72:251:8834
TR:138:299
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
TR:138:96
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
TR:138:395
The Critical U.S. Energy Situation, John J. McKetta, PP2:Apr 73:171:9685
Developing Younger Member Communication, Norman L. Buehring, PP3:July 73:321:9876
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, PP4:Oct 73:513:10105
Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
TR:138:474
An Educator-Practitioner Interaction Program, Subhash C. Anand, PP2:Apr 73:259:9674
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, Samuel C. Florman, PP3:July 72:383:9043
TR:138:418
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
TR:138:381
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering For People, Richard R. Harbert, PP3:July 72:387:9058
TR:138:441
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
Engineering 1972-A Review, Thomas C. Kavanagh, PP3:July 73:287:9889
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
TR:138:289
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
TR:138:154
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563:9287
TR:138:599
Guideline: Employer--Engineer Relationship, Committee on Employment Conditions of the Professional Practice Division, Charles J. Stevens, Chmn., PP4:Oct 72:523:9279
TR:138:583
Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division, James W. McPhillips, Chmn., PP1:Oct 71:167:8480
TR:138:68
The Hospital as a Microenvironment, E. Todd Wheeler, PP4:Oct 72:675:9292
TR:138:593
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, Joseph L. Grant, PP2:Apr 73:159:9663
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
TR:138:227
Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262
TR:138:535
Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
Legislative Involvement, Stephen M. Olko, PP4:Oct 72:491:9278
TR:138:573
Maritime Extensions of Trans-Alaska Pipeline, Steven Flajser and Edward Wenk, Jr., PP2:Apr 73:245:9665

Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
  TR:138:485
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
  TR:138:593
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490
The Nature of Continuing Education, Alfred C. Ingersoll, PP1:Jan 72:113:8660
  TR:138:144
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883
Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
  TR:138:39
Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666
  TR:138:204
Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72:311:9059
  TR:138:452
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
  TR:138:166
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
  TR:138:80
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820
  TR:138:250
Professional Recognition -- How?, James Gordon Clark, PP2:Apr 72:169:8857
  TR:138:335
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
  TR:138:312
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3:July 72:363:9051
  TR:138:432
Public Policy: Who Speaks for the Engineer?, Augustine J. Fredrich, Preprint No.2051, July 73
The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504
The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
  TR:138:592
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429:10090
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73:59:9493
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Training Minorities for Construction Work, Ewell W. Finley, CE:Mar 72:76
  TR:138:161
Upgrading Student Membership, Carter H. Harrison, Jr., PP1:Jan 73:119:9508
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879
Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667
  TR:138:215
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
  TR:138:407
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881
Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76
Why Bidding Is Not In The Best Interest of The Client, John T. Merrifield, Preprint No.1965, Apr 73
20th Century Renaissance, Donald N. Anderson, PP3:July 73:373:9886
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Professional Advancement

American Engineering Unions, Hatim M. Hajj, PP2:Apr 73:213:9657
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
  Dsc: Sandra Johnson, CE:July 73:25; Della Laura, CE:July 73:25; Amos Roos, CE:July 73:26; Dorothy M.N. McClellan, CE:July 73:26; Della Laura, CE:Oct 73:32
Booby Traps for Young Engineers on Construction, Edward A. Merrill, CO2:Nov 71:305:8541
  TR:138:108
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
  TR:138:191
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
  TR:138:485
Professional Development for Consulting Engineers, Gerald L. Baker, PP1:Jan 72:49:8662
  TR:138:166
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Professional Development

CE:Apr 73:55
The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659
  TR:138:131
Industrial Archaeology - An Avocation for Engineers, Emory L. Kemp, PP4:Oct 73:481:10087
University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49
  TR:138:20

Professional Engineering

Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55
  Dsc: Christopher G. Tyson, CE:Sept 72:65
  TR:138:190
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
Bidding is Against Client Interest, John T. Merrifield, PP3:July 73:389:9878
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
  TR:138:191
Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
  TR:138:96

Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Continuing Education in Mid-Career: The Graduate Public Works Program at Pittsburgh, William D. Brinckloe, Preprint No.2054, July 73
Developing Younger Member Communication, Norman L. Buehring, Preprint No.1967, Apr 73
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, Preprint No.1980, Apr 73
An Educator-Practitioner Interaction Program, Subhash C. Anand, PP2:Apr 73:259:9674
Engineering For People, Richard R. Harbert, PP3: July 72:387:9058
TR:138:441
Engineering Policies, Politics and Pragmatism, Robert F. Baker, Preprint No.2006, Apr 73
Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
The Environment and the Law, Remy R.L. de Jong, Preprint No.2071, Oct 73
The Making of a "Pro" -- A Faculty Viewpoint, Dan H. Pletta, Preprint No.2063, Oct 73
The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Milton Alpern, Preprint No.2073, Oct 73
The Making of a "Pro" -- or, Motivating Students Towards Professional Thinking. The Practitioner's Viewpoint, Joseph M. DeSalvo, Preprint No.2084, Oct 73
Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
TR:138:80
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Public Dissent and Professional Responsibility, CE: Sept 73:98
The Role of the Engineer in Systems Building, Tung Y. Lin, Preprint No.2012, Apr 73
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB: 73:C-27
What Graduate Students Want From ASCE, Harold J. Singer, Preprint No.1971, Apr 73
Why Bidding Is Not In The Best Interest of The Client, John T. Merrifield, Preprint No.1965, Apr 73

Professional Practice
Aesthetics -- Part of Civil Engineering, Frederick M. Law, PP2:Apr 72:275:8850
TR:138:324
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
Boosting Construction-Worker Productivity, Charles R. Schrader, CE:Oct 72:61
TR:138:458
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659
TR:138:131
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Esthetics -- A Necessary Part of the Engineer's Education, Frederick M. Law, Preprint No.2075, Oct 73
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26
In Defense of Dubos and Ellul, Kim de Rubertis, CE: Dec 72:51
TR:138:534
Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Dsc: G. A. Hammond, CE:June 73:22; Darrell J. Turner, CE:June 73:22; T. P. Limber, CE:Aug 73:40
Professional Education: The Need for Creativity, Charles R. Schrader, PP1:Jan 72:85:8654
TR:138:80
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Professional Liability Insurance, Paul L. Genecki, PP2:Apr 72:213:8820
TR:138:250
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
TR:138:312
Public Dissent and Professional Responsibility, CE: Sept 73:98
State of the Society, Oscar S. Bray, PP4:Oct 72:481: 9291
TR:138:602
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
TR:138:447
1971 ASCE Salary Survey, the Committee on Employment Conditions of the Department of Professional Activities, Charles J. Stevens, Chmn., PP3:July 72:393:9025
TR:138:347

Professional Societies
CE:Apr 73:55
Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
Dsc: Eugene T. Jensen, CE:July 72:69
TR:138:70
Integrity and the Ecological Crisis, Myron Tribus, PP1:Jan 72:25:8677
TR:138:227
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
TR:138:5
State of the Society, Oscar S. Bray, PP4:Oct 72:481: 9291
TR:138:602
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
TR:138:278

Profiles
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
TR:138:558
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733

Programming Languages
Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
TR:138:397

Project Control
Business Development and the Selection Process, George S. Korbay, EPMT:73:21
Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60
Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
TR:138:55

Project Feasibility
Business Development and the Selection Process, George S. Korbay, EPMT:73:21

Projectiles
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
  TR:138:104
Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73: 1033:10/48

Project Management
An American Engineer in Israel, Irving Kett, CE: June 72:63
  Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73: 52; Elias Zolkov, CE:June 73:24
  TR:138:295
Financial Considerations of Effective Project Management Techniques, Marion T. Hvidt, EPMT: 73:71
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
  TR:138:199
Dsc, "Precedence Networks For Project Planning And Control", John A. Cunningham, CE:Dec 73:24

Project Planning
Dsc, "Precedence Networks For Project Planning And Control", John A. Cunningham, CE:Dec 73:24

Projects
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Australia Square, Seidler & Associates, TB:73:C-P-418
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Central Square, Fox & Associates, TB:73:C-P-424
Centre Square, Vincent G. Kling and Partners, TB: 73:C-P-390
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
CIL House, M. I. Gilmore, TB:73:C-P-284
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
Clinton Square, Welton Becket and Associates, TB: 73:C-P-338
Commerce Court, M. I. Gilmore, TB:73:C-P-294
Crestline Apartments, Grigalis & Associates, TB:73: C-P-458
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1: Jan 72:33:8657
  TR:138:107
Exchange Centre, Peddle, Thorp and Walker, TB:73: C-P-406
Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368
Finland House, Kahn & Jacobs, TB:73:C-P-350
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258
First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494
Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229
Government Offices and Conference Center (Nairobi), Gordon Melvin & Partners, TB:73:C-P-436
Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498
Le Chateau Champlain, T. A. Monti, TB:73:C-P-278
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
M.L.C. Centre, Seidler & Associates, TB:73:C-P-426
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Nauru House, Perrott, Lyon, Timlock & Kesa, TB: 73:C-P-428
Old Hall Street Development -- Liverpool, Alastair J.M. Soane, TB:73:C-P-231
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
One Shell Plaza, Skidmore, Owings & Merrill, TB: 73:C-P-488
One Shell Square, Skidmore, Owings & Merrill, TB: 73:C-P-490
Penn Center, Vincent G. Kling and Partners, TB:73: C-P-380
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Project Planning, John M. Shields, SU1:July 72:61: 9041
  TR:138:202
Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Royal Bank Building, M. I. Gilmore, TB:73:C-P-288
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Standard Oil of N.J., Harrison & Abramovitz, TB: 73:C-P-431
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434
Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Thyssenhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-448
Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301
Tour Apogee, Skidmore, Owings & Merrill, TB:73: C-P-486
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Unileverhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-450
Union Bank, Welton Becket and Associates, TB:73: C-P-326
United California Bank, Ormond Robert Berry, TB: 73:C-P-251
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360
Valley Center, Welton Becket and Associates, TB: 73:C-P-318
The Viennese Subway System, Max Ellinger, TB:73: C-P-269
The Wainwright Building, John D. Randall, TB:73:C-P-352
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394

200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73:C-P-282

Properties
The Subsurface Environment: Private Property or Public Domain, William R. Walker and William E. Cox, Preprint No.2102, Oct 73

Protamines
Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
TR:138:122

Protective Clothing
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
TR:138:364

Protective Coatings
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
TR:138:462
Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199:9716

Prototypes
Navigation Model Tests for Straight Reach of Missouri River, Duane J. Sveum and Warren J. Mellema, WW2:May 72:191:8867
TR:138:227

Protuberances
Wind Load on Cylinder With Spanwise Protrusion, David F. James and Quan-Si Truong, EM6:Dec 72:1573:9416
TR:138:543

Psychological Aspects
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139

Psychological Effects
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Public Administration
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880

Publications
List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721
TR:138:65

Public Health
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994
Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
TR:138:593

Publicity
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389

Public Land
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
TR:138:211

Public Opinion
Citizen Inputs to Public Works Projects, Desmond M. Connor, Preprint No.2069, Oct 73
The Engineer: Public Policy and Petroleum Pipelines, P. N. Gammelgard, Preprint No.2111, Oct 73
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389
Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71:601:8613
TR:138:76
Theory and Practice of Public Participation in Planning, George E. Willeke, Preprint No.1871, Jan 73

Public Relations
Action in Public Affairs -- A Way of Life, James W. McPhillips, Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
TR:138:239
Client Relations, Chandler P. Young, EPMT:73:63
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
TR:138:395
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
Environmental Impact Statements Discussed, CE:Feb 73:61
Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585

Public Works
Art in Engineering - The Need for a New Criticism, David P. Billington, PP4:Oct 73:499:10102
Citizen Inputs to Public Works Projects, Desmond M. Connor, Preprint No.2069, Oct 73
Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517
Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991

Pulp and Paper Industry
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73:365:9713
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543

Pump Drainage
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244

Pumped Storage

Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537
Environmental Design of Bear Swamp Project, Robert W. Kwiatkowski and Louis D. Pierce, PO1: May 73:205:9738
Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
TR:138:29
Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64
Dsc: Robert H. Griffin, CE:Oct 73:26
Ludington Pumped Storage Project, E. Comninellis, PO1:May 73:069:9696
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72: 237
Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40
Dsc: Orville T. Magoon, CE:Mar 73:87; G. V. Eckenfelder, J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45
TR:138:531
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
TR:138:550

Pumping

Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
TR:138:344

Pumping Stations

Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60

Pump Intakes

Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
TR:138:571

Pumps

Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
TR:138:571
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
TR:138:465
Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014
TR:138:359
Two-Dimensional Analysis of Flow in Jet Pumps, Barry J. Mill, HY7:July 73:1009:9847

Punches

Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847
TR:138:236

Punching

Punching Shear Characteristics of RHS Joints, Narsing M. Patel, William J. Graff and Ardis H. White, Preprint No.1963, Apr 73

Purification

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71: 617:8425
TR:138:49
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5: Oct 71:661:8419
TR:138:41

Quadratic Equations

Analysis of Structures by Quadratic Programming, Mehdi S. Zarghamee, EM5:Oct 71:1495:8431
TR:138:27
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6: Dec 72:1547:9435
TR:138:564

Quality Assurance

Quality Assurance, Ralph E. Voice, Jr., EPMT:73:59

Quality Control

An American Engineer in Israel, Irving Kett, CE: June 72:63
Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73: 52; Elias Zolkov, CE:June 73:24
TR:138:295
Concrete Quality, Neil Jackson, TB:73:Ib-9-896
Construction of Deep Foundations, William F. Swiger, PES:73:III-207
Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823
Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1
Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807
Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73: Ib-9-901
Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749
Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73: Ib-9-889
The Quality System as Seen by the Government Engineer-Administrator, Ellis L. Armstrong, Preprint No.1882, Jan 73
Quality System in Construction, Edward A. Abdun-Nur and John E. Rinne, Preprint No.1912, Jan 73
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87
Summary Report of Questionnaire on Construction Inspection, by the Task Committee on Inspection of the Construction Division, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
TR:138:524
System for Control of Construction Quality, Roland M. Parsons, CO1:Mar 72:21:8757
TR:138:159
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Quarrying

Rapid Excavation With Explosives, Richard H. Groves and Robert L. LaFrenz, CE:Aug 72:60
TR:138:380

Questionnaires

Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
TR:138:27
Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849

Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73: C-AC11-53
What Graduate Students Want From ASCE, Harold J. Singer, Preprint No.1971, Apr 73

Queueing Theory
Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
TR:138:441

Radiation
Frequency of Potential Evapotranspiration Rates in Great Central Plains, Norman J. Rosenberg, IR2: June 72:203:8946
TR:138:294

Radiation Hazards
The Nuclear Fuel Cycle and Waste Production, Harvey F. Soule, Preprint No.2093, Oct 73

Radioactive Decay
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474

Radioactivity
Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561: 8990
TR:138:414

Radioisotopes
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519

Railroads
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804
TR:138:162
Need for Competent Engineering for Transit Systems, Louis T. Klauder, TN: TE3:Aug 73:9899
Panama's Forgotten Designer: John Frank Stevens, Catherine R. Taylor, PP4:Oct 73:465:10106
Planning Aspects for Variable and Fixed Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462
Railroad Crossings at Berwick Bay, Thomas E. Petermann, CO1:July 73:93:9833
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
Dsc: William G.G. Blakney, CE:July 73:22

Railroad Trains
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804
TR:138:162

Rails
Buckling of Beams Supported by Pasternak Foundation, G. K. Narasimha Murthy, EM3:June 73:565:9812

Rail Transportation
BART Rail Transit System Begins Operations, CE: Nov 72:63
Dsc: R. Leo Burditt, CE:July 73:22
TR:138:505
Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE: Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73: 32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34

Rainfall
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72: 585:9413
TR:138:562
Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72: 1773:9294
TR:138:517
Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1: Mar 73:27:9608
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
TR:138:13
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415
Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72: 1935:9353
TR:138:548
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Use of Digital Radar Data in Operational Hydrology, Michael D. Hudlow, Preprint No.1911, Jan 73
Water Management by Shallow Drainage, Royal H. Brooks and John C. Nibler, Preprint No.1868, Jan 73
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9: Sept 72:1515:9187
TR:138:466

Rainfall Intensity
Rainfall Excess Model from Soil Water Flow Theory, Roger E. Smith and Don L. Chery, Jr., HY9:Sept 73:1337:9990

Rainfall-Runoff Relationships
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
TR:138:270

Ramps
Chemical Resistant Resurfacing Mortars for Industrial Floors and Ramps, Dallas Grenley and Lou Kuhlmann, Preprint No.2092, Oct 73

Random Error
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
TR:138:550

Random Functions
Identification of Random Systems and Applications, T. T. Soong, Preprint No.2001, Apr 73

Random Processes

Elements of Random Vector Analysis, Robert M. Stark and Devendra K. Shukla, TN: EM2:Apr 73: 434:9641
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72: 519:8961
  TR:138:278
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73: 715:9918

Random Vibration

Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634

Random Walk

Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930

Rapid Transit Railways

Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
  TR:138:330
BART in Operation -- New Innovations in Rapid Transit, William A. Bugge, Preprint No.2060, July 73
BART Rail Transit System Begins Operations, CE: Nov 72:63
  Dsc: R. Leo Burditt, CE:July 73:22
  TR:138:505
Bus Transit, Lester A. Hoel, CE:Mar 73:79
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, Preprint No.2040, July 73
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1: Feb 73:53:9518
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
  TR:138:469
Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388
  TR:138:590
Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139
  TR:138:411
Houston Airport's Low Cost People Mover, Hal K. Puckett and James C. Williamson, Preprint No.2047, July 73
The Legislation of Balance, Milton Pikarsky, TE3: Aug 73:483:9938
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
Need for Competent Engineering for Transit Systems, Louis T. Klauder, TN: TE3:Aug 73:9899
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
  TR:138:579
Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892
  TR:138:187
On Two Means of Alleviating Rush-Hour Crowding, Charles Libove, Preprint No.2033, July 73
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571: 9960
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
  TR:138:194

Rates (Costs)

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
  TR:138:441

Rational Formula

Kinematic Wave Nomograph for Times of Concentration, Robert M. Ragan and J. Obiukwu Duru, HY10:Oct 72:1765:9275
  TR:138:506

Rayleigh Scattering

Probabilities For Highest Wave In Hurricane, Leon E. Borgman, WW2:May 73:185:9705

Reaction Kinetics

Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1: Feb 73:73:9557

Reactions (Mechanics)

Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
  TR:138:584

Ready Mixed Concrete

Disposal and Uses of Power Plant Ash in Urban Area, Philip G. Sikes and Henry J. Kolbeck, PO1: May 73:217:9741
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807

Reaeration

Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72: 153:8651
  TR:138:111

Real Property

Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72: 823:9319
  TR:138:449

Recession Curves

Recession Flow in Surface Irrigation, I-pai Wu, IR1: Mar 72:77:8764
  TR:138:116

Recharge Wells

Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958
Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
  TR:138:197

Reclamation

Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
  TR:138:487
Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
  TR:138:79
Pavement Crushed, Reused to Strengthen Runway Base, Robert C. Briggs, Jr., CE:Apr 73:82
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
The Prairie Plan, Frank L. Kudrna, Preprint No.1890, Jan 73

Swampy Site Turned into Prize-Winner, James L. Hart, CE:June 73:82

Recommendations
Lamellar Tearing of Welded Steel, CE:Dec 73:34

Recreation
Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304
  TR:138:532
National Water Commission Report, Charles Luce, Ted Schad and Victor Koelzer, CE:May 73:70

Recreational Facilities
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
  TR:138:307
Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
  TR:138:182
Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
  TR:138:142
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
  TR:138:478
Toronto Converts Decaying Waterfront into Parks, Jack M. Jones, CE:Sept 73:74
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054
  TR:138:605

Recreation Facilities
Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
  TR:138:209
The Bicycle Anarchy, James L. Konski, TE4:Nov 73:757:10120
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Residential Community Features Novel Dam and Sewer, Robert B. Balter, CE:May 73:46
  Dsc: Jacob S. Parker, Jr., CE:July 73:28

Recruiting
CE:Apr 73:55

Rectangular Bodies
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
  TR:138:559
Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Reduction
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701

Reduction (Chemical)
Effects of Iron on Activated Sludge Treatment, John L. Carter and Ross E. McKinney, EE2:Apr 73:135:9679

Refineries
Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318
  TR:138:14

Reflection
Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353:9982
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213

Refraction
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HY8:Aug 73:131

Refrigerating Machinery
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319

Refrigeration
Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163

Refuse
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
  TR:138:564
Sanitary Landfills: The Latest Thinking, CE:Mar 73:69

Refuse Disposal
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
  TR:138:540
Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69
City of St. Louis-Union Electric Company Process Solid Waste as a Boiler Fuel, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, Preprint No.2114, Oct 73
Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Environmental Aspects of Fossil Fuel Power Plant Solid Waste Disposal, Anthony M. Di Gioia, James E. Niece and Robert P. Hayden, Preprint No.2116, Oct 73
Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72:71:8720
  TR:138:216
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
  TR:138:476
Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2:Apr 73:249:9648
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
  TR:138:564
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
  TR:138:4
Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561:8990
  TR:138:414

Regional Analysis
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
  TR:138:162

Regional Planning
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
  TR:138:375
Citizen Inputs to Public Works Projects, Desmond M. Connor, Preprint No.2069, Oct 73
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
Computer-Aided Design of Airport System Plans, Everett S. Joline, Preprint No.2058, July 73
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, Preprint No.2040, July 73
Consolidation for Urban Goods Movements: Air Cargo on the Ground as a Case Study, Richard de Neufville and Nigel H.M. Wilson, Preprint No.2061, July 73

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
  TR:138:34
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
  TR:138:140
Estimation of General Aviation Air Traffic, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, Preprint No.2041, July 73
Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388
  TR:138:590
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970
Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
  TR:138:162
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
  TR:138:219
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
  TR:138:130
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Mobile Homes and New Communities, Herbert W. Behrend, Preprint No.2088, Oct 73
New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
  TR:138:201
New York City Hacks Through Capital Construction Jungle, Thomas A. Graham, CE:Apr 72:60
  TR:138:199
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951
Planning: Integrated Grant Administration Program, Roland M. Lewis, Preprint No.2052, July 73
Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72:311:9059
  TR:138:452
Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
  TR:138:269
Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752
Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136
  TR:138:394
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
  TR:138:353
San Francisco BCDC Revisited, E. Jack Schoop, CE: Apr 73:71
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107
Theory and Practice of Public Participation in Planning, George E. Willeke, Preprint No.1871, Jan 73
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Transportation Problem Formulation and Evaluation, R. W. Woodhead and R. H. Wortman, Preprint No.2042, July 73
Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193
Urban Transportation, Murray A. Muspratt, TN: TE1:Feb 73:193:9529
Use of Simulation in Airport Planning and Design, Dana E. Low, Preprint No.2038, July 73
Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543:9174
  TR:138:446
Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044
Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667
  TR:138:215
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Why Regional Airports, Jack D. Downey, ASC73: Mar 73:153
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054
  TR:138:605

Registration

Engineering Registration - Today and Tomorrow, Rex A. Tynes, PP4:Oct 73:457:10079
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
  Dsc: R. F. Lathlean, CE:June 73:26
Opportunities for American Engineers in Overseas Work, Edward K. Bryant, PP4:Oct 73:433:10084
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656
Profile of ASCE Membership, George K. Wadlin, Jr., CE:Jan 72:39
  TR:138:5
A Profile of ASCE Membership, George K. Wadlin, Jr., PP2:Apr 72:195:8843
  TR:138:312
Specialty Registration for Engineers, Thomas deS. Furman, CE:Dec 72:32
  Dsc: Paul W. Merkens, CE:Mar 73:89; Rex A. Tynes, CE:Mar 73:89; John P. Piercy, CE:Mar 73:89
  TR:138:522

Regression Analysis

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
  TR:138:34
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73:383
Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4: Nov 72:799:9362
  TR:138:535
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Regulation

"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
  TR:138:336

Regulations

External Blast, State-of-Art Report 7, Nathan M. Newmark, TB:73:Ib-8-661
Flood Proofing Regulations for Building Codes, Armando C. Lardieri, Preprint No.1915, Jan 73

Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72:769:9355
  TR:138:527
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
  TR:138:390
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054
  TR:138:605

Reinforced Plastics
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72

Reinforcement
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72:1325:9417
  TR:138:575
Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
  Dsc: Joel Rosenblatt, CE:July 73:22
Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
  TR:138:130
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Optimal Fiber-Reinforced Plate Corners, Robert E. Melchers, TN: ST7:July 73:1692:9828
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173:9181
  TR:138:429
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
  TR:138:253
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
  TR:138:368
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
  TR:138:43
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72:611:8791
  TR:138:189
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
  TR:138:467

Reinforcement (Structures)
Elastomeric Bridge Bearings, Charles E. Rejcha, CE:May 72:46
  Dsc: Knut S. Platou, CE:Jan 73:73
  TR:138:233

Reinforcing Steels
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
  Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22
Repairing Buildings Damaged in Earthquake, CE:Oct 73:62
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907

Relative Density
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10:Oct 73:813:10099

Relaxation (Mechanics)
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
  TR:138:559

Reliability
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Fatigue Reliability and Design, James T.P. Yao, Preprint No.2023, Apr 73
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73
An Invariant Second Moment Reliability Format, Niels C. Lind, Preprint No.1921, Apr 73
Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, Preprint No.2023, Apr 73
Reliability of Structural Systems, Fred Moses, Preprint No.2023, Apr 73
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541:9864

Relocation
Environmental Design and Construction Response on Highway Relocation for a Mountain Reservoir (A Rock Duet), Phillip L. Cole and Sydney Steinborn, Preprint No.1916, Jan 73
Relocation Assistance Programs, James M. Keefe, PP1:Jan 73:101:9504

Remote Sensing
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
  TR:138:149
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62
Civil Engineering Applications of Remote Sensing, David J. Barr and Wesley P. James, Preprint No.2072, Oct 73
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HY8:Aug 73:305
Photogrammetry Aids Solution of Environment Problems, Alfred O. Quinn, SU1:July 72:87:9044
  TR:138:228
Dsc, "The Surveillant Science: Remote Sensing Of The Environment", Kam W. Wong, CE:Nov 73:28

Removal

Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901

Repairing

External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717

Repeated Loading

Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354

Replacement Theory

Sensitivity Analysis of Douglas Equipment Life Model, Neal B.H. Benjamin, CO1:Mar 72:61:8796
TR:138:283

Reports

The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), Norman J. Overbeek, Chmn., PP1: Jan 72:131:8658
TR:138:119

Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., George Bugliarello, Chmn., HY7:July 72:1243:9072
TR:138:397

Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715

Engineering Requirements for Computer Software, Robert J. Melosh, Preprint No.2022, Apr 73

Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, H. Bolton Seed, Chmn., SM10:Oct 72:1115:9269
TR:138:490

Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
TR:138:407

Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
TR:138:461

Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
TR:138:391

Selection of Maps for Engineering and Planning, by the Task Committee for the Preparation of a Manual on the Selection of Map Types, Scales and Accuracies for Engineering and Planning of the Committee on Cartographic Surveying of the Surveying and Mapping Division, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
TR:138:420

Stability, Summary Report, Boris Bresler, TB:73:III-23-631

Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
TR:138:121

1971 ASCE Salary Survey, the Committee on Employment Conditions of the Department of Professional Activities, Charles J. Stevens, Chmn., PP3:July 72:393:9025
TR:138:347

Research

Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
TR:138:226

Application of Simulation Techniques to Small Project Analyses, Milton L. Holloway and Lial F. Tischler, Preprint No.1907, Jan 73

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209

The Civil Engineer In Research, Johannes J. DeVries, CE:Jan 73:92

Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139

Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72: 2329:9325
TR:138:521

Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500

Effects of Irradiation of Secondary Effluent, David D. Woodbridge, William R. Garrett and Pricilla C. Cooper, Preprint No.2085, Oct 73

Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71: 1269:8367
TR:138:7

Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229

Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, Robert F. Baker, Chmn., PP4:Oct 72:563: 9287
TR:138:599

Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103

Physico-Chemical Factors in Erosion of Cohesive Soils, Arunachalan Sargunam, Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609

Research and Planning in Fluid Mechanics, Stephen J. Kline, HY5:May 72:765:8898
TR:138:281

Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
TR:138:367

Research Needs for Airport Terminal Planning by the Research Committee of the Air Transport Division, Richard Neufville, Chmn., TE4:Nov 73: 863:10153

Research Needs in Environmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE6:Dec 73:801:10198

Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2: Apr 72:299:8833
TR:138:321

Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318

Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057

Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55

Task Committee Report on Geological Conditions Affecting Pipeline Location, Clarence O. Walker, Preprint No.2036, July 73

Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73: C-AC11-53

Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
TR:138:467

Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555

Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
  TR:138:574
Wastewater Management Studies by the Corps of Engineers, Willard Roper, Preprint No.1917, Jan 73
Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435

Research and Development
An Overview of Highway Research and Development, Flory J. Tamanini, Preprint No.1988, Apr 73
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
  TR:138:503

Research Management
Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722
Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73:C-AC11-53

Reservoir Design
Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
  TR:138:182

Reservoir Evaporation
Model Tests with Thin Sheets to Reduce Evaporation, A. F. Thoma, IR2:June 73:117:9779

Reservoir Operation
Environmental Impact and Hydraulic Structures -- Current and Predicted, Danny L. King, Glenn R. Drummond and David W. McDougall, Preprint No.1913, Jan 73
Multilake River System Operation Rules, Chin-shu Liu and Allan C. Tedrow, HY9:Sept 73:1369:10021
Reservoir Operation for Recreation Usability, Reiner Jaakson, HY10:Oct 73:1813:10058
Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476

Reservoirs
Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Biological and Chemical Interactions in Reservoirs, Darrell L. King, Preprint No.1884, Jan 73
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
  TR:138:537
Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
  TR:137:852
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994
Environmental Design and Construction Response on Highway Relocation for a Mountain Reservoir (A Rock Duet), Phillip L. Cole and Sydney Steinborn, Preprint No.1916, Jan 73
Environmental Impact and Hydraulic Structures -- Current and Predicted, Danny L. King, Glenn R. Drummond and David W. McDougall, Preprint No.1913, Jan 73
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
The Hydrodynamic Interaction of Thermal Stratification and Reservoir Water Quality, Mark Markovsky, Preprint No.1893, Jan 73
Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal Eroman Unny and David S. Weaver, TN: EM4:Aug 73:912:9898
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Ludington, Mich., Pumped Storage Project, Carl F. Whitehead, CE:June 73:64
  Dsc: Robert H. Griffin, CE:Oct 73:26
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Nonlinear Equation of Unsteady Ground-Water Flow, John C. Bruch, Jr., HY3:Mar 73:395:9589
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
  TR:138:409
Optimization of Multiple Reservoir System, William J. Trott and William W-G Yeh, HY10:Oct 73:1865:10065
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5: May 73:729:9730
Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953
  TR:138:305
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249
Sediment Control Methods: D. Reservoirs, by the Task Committee for Preparation of Manual on Sedimentation of the Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12: Dec 72:2087:9426
  TR:138:578
Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053
Simulation of Impoundment Turbidity Structure, Darrell G. Fontane, Preprint No.2083, Oct 73
Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
  TR:138:234
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72:237
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Upstream Drainage Increases Spillway Stability, Charles D. Craddock, Preprint No.1902, Jan 73
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
  TR:138:435
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Watershed as a Semi-Infinite Storage Reservoir, Vit Klemes, Preprint No.1895, Jan 73
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213

Reservoir Silting
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Reservoir Storage
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219
  TR:138:539
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
  TR:138:528
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
  TR:138:443

Reservoir Yield
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219
  TR:138:539

Residual Stress
Autostress Design of Steel Structures, Geerhard Haaijer, Preprint No.1930, Apr 73
Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73:299
Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Resins
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901

Resistance
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869
Earthquake Repairs, Kaiser Hospital, Panorama City, California, Donald R. Strand, Preprint No.1996, Apr 73

Resonance
Resonance in Pipes Having Variable Characteristics, M. Hanif Chaudry, HY2:Feb 72:325:8691
  TR:138:159
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
  TR:138:155
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
  TR:138:431

Resource Allocation
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275:9204
  TR:138:546
New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Quantifying the Environmental Impact of Transportation Systems, William L. Smith, Preprint No.2049, July 73

Resources
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
  Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE: Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
  TR:138:434
Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869

Responses
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Incremental Response of 3-D Cable Networks, John W. Leonard, TN: EM3:June 73:621:9765
Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267
Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861
Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140
Structural Animation, John E. Crawford, Preprint No.2087, Oct 73
Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298

Responsibilities
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103
Structural Failures from the Human Side, Raymond C. Reese, CE:Jan 73:81
  Dsc: Richard C. Elstner, CE:Apr 73:81

Retaining Walls
Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, Andre Paduart, TB:73:III-26-859
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES:73:III-251
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6:June 72:625:8999
  TR:138:547
Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, Fred C. Teitgen and David R. Fiedler, CE:Nov 73:82
Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014
Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12:Dec 71:1657:8583
  TR:138:95
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
Foundation Failure, Jacob Feld, CE:June 73:89
  Dsc: M. D. Morris, CE:Aug 73:20
Landslides and Foundation Design, Hsai-Yang S. Fang, TB:73:Ia-11-1012
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
  TR:138:538

Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068

Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, Preprint No.2018, Apr 73

Retardance

Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612

Retirement

ASCE's Involvement in Pension Concepts, Joseph S. Ward, CE:Sept 73:93

Retirement Starts Now, Ernest W. Fair, CE:Nov 73:77

Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
  TR:138:484

Return Flow

Changing Role of Water Conveyance Systems, Gaylord V. Skogerboe and Wynn R. Walker, Preprint No.1880, Jan 73

Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, Sheng-Tien Hsu and Rex A. Elder, HYB:Aug 73:177

Revenue

HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035
  TR:138:246

Revenues

Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
  TR:138:510

Revetments

The Fickle Mississippi, Virginia Fairweather, CE:Dec 73:60

Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, Preprint No.2018, Apr 73

Reviews

Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
  Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
  TR:138:53

Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
  TR:138:461

Revisions

Lavon Dam Modification, Garland E. Young, Preprint No.1923, Apr 73

Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
  TR:138:75

Rheology

The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753

Rhode Island

Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
  TR:138:58

Ribs (Supports)

Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
  TR:138:205

Right-Of-Way

Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
  TR:138:590

Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
  TR:138:130

Right of Way Acquisition

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751

Environmental Aspects of Pipeline Route Selection, Francis J. Stastny, Preprint No.2076, Oct 73

Environmental Design and Construction Response on Highway Relocation for a Mountain Reservoir (A Rock Duet), Phillip L. Cole and Sydney Steinborn, Preprint No.1916, Jan 73

Esthetics in Highway Design, Donald Van Riper, CE:Apr 72:47
  Dsc: Miguel P. Dengo, CE:Aug 72:46
  TR:138:177

Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
  TR:138:590

Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
  TR:138:130

Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
  TR:138:285

Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
  TR:138:211

Rigid Frames

Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
  TR:138:551

Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131

Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595

Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert M. Lee, ST7:July 73:1371:9835

General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
  TR:138:368

Rapid Design of Tapered Rigid Frames, Duane S. Ellifritt, CE:July 72:45
  TR:138:323

Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293

Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128

Stability of Unbraced Single-Bay Multistory Frames, Abel Helmy Salem, ST2:Feb 73:223:9552

Rigidity

Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934

Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19

Rigid Pavements
Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE1:Feb 72:37:8699
TR:138:36
Effect of Openings on Stresses in Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE2:May 73:255:9721
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
TR:138:561
Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE: Mar 72:42
TR:138:127

Rings
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800
Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
TR:138:176
Inelastic Buckling of Rings with Residual Stresses, Subhash C. Anand and Alvin R. Griffith, EM5:Oct 73:927:10063
Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
TR:138:436

Riparian Rights
State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217

Ripple Marks
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72: 1057:8952
TR:138:328
Ripple and Dune Phases in a Narrowly Graded Sand, Christopher John Pratt and Kenneth V.H. Smith, HY5:May 72:859:8912
TR:138:296
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441: 9618

Risk
The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55
Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73: 65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
TR:138:377
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007

Risks
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Illustrations of Safety Evaluation and Risk-Based Design, Bruce R. Ellingwood and Alfredo H.-S. Ang, Preprint No.2023, Apr 73
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, Preprint No.1958, Apr 73
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249

River Basin Planning
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909: 10208
Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192
Systems Approach to River Basin Management, Stephen J. Burges and Brian W. Mar, Preprint No.1877, Jan 73

River Beds
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
River Bed Degradation After Closure of Dams, Hammad Y. Hammad, HY4:Apr 72:591:8814
TR:138:220

River Closures
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
TR:138:567

River Flow
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Hydraulics of a Gravel-Core Fish Screen, Ronald E. Nece and Milo C. Bell, HYB:Aug 73:31
Mississippi River Water for Texas, Ottoniel Arguello and Raphael G. Kazmann, Preprint No.1867, Jan 73
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Optimization Model for Churchill River Diversion, Abu M.Z. Alam, HY8:Aug 72:1351:9089
TR:138:409
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
TR:138:469
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293
Stochastic Five Daily Stream Flow Model, Nath T. Kottegoda, HY9:Sept 72:1469:9165
TR:138:438

River Regulation
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
TR:138:300

Rivers
Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883: 8601
TR:138:135
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72: 585:9413
TR:138:562
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070

Diffusion Solution To Flows with Upstream Control, Alex J. Sutherland and Alistair G. Barnett, HY11: Nov 72:1969:9330
TR:138:537
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
TR:138:324
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313: 10241
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72: 589
Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886
TR:138:263
Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
TR:138:241
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
TR:138:559
Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262
TR:138:535
Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195: 9479
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225: 8866
TR:138:209
National Weather Service River Forecasting System, Eric A. Anderson and John C. Monro, Preprint No.1879, Jan 73
Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
TR:138:326
Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
TR:138:192
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
Pullman Tackles its Flooding Problems, Howard D. Copp, CE:Aug 72:42
Dsc: John A. Owen, CE:Nov 72:56
TR:138:360
Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603: 9191
TR:138:470
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71: 1165:8279
TR:137:1023
Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591
TR:138:64
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
TR:138:391
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
TR:138:213
Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521
TR:138:47
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167
Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293
Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224
Stability of Floating Ice Blocks, Mehmet S. Uzuner and John F. Kennedy, HY12:Dec 72:2117:9418
TR:138:571
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
TR:138:567
Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
TR:138:544
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
TR:138:136
Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736
Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
TR:138:519

River Training
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
TR:138:300

Road Construction
Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Road Design
California Tackles Highway Noise, James D. Collins, CE:Nov 73:56
Fracture of Pavement Materials, Geoffrey E. Blight, TE4:Nov 73:801:10139

Roads
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
TR:138:478
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Rock (Material)
Dsc, Practical Applications of Rock Mechanics, Dewayne L. Misterek, CE:Feb 73:17

Rock Bolts
Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
TR:138:274

Rock Crushers
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613
A Study on a New Concept of Thermal Hard Rock Crushing, K. Thirumalai and J. B. Cheung, RM14: 73:527

Rock Drilling
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
TR:138:310
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73: 589

Rock Fills
Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
TR:138:160
Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
TR:138:492

Rock Mechanics
Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
TR:138:491
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649
Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445
Changed Soil and Rock Conditions in Construction, George F. Sowers, CO2:Nov 71:257:8509
TR:138:83
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, Samuel S.M. Chan and Grant L. Anderson, RM14:73:757
The Deep Stress Probe -- A Tool for Stress Determination -- Abstract, J. C. Roegiers, RM14:73:755
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
The Development of a New Borehole Extensometer -- Abstract, Howard G. Spark, RM14:73:756
Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73:299
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613
Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and T. L. Brekke, RM14:73:481
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
TR:138:189
Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709
Finite Element for Rock Joints and Interfaces, Jamshid Ghaboussi, Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Hybrid Computer Analysis of Seam Extraction -- Abstract, M. P. Hardy, S. L. Crouch and Charles Fairhurst, RM14:73:749
Influence of Loading Rate On Rock Response, Dale E. Stephenson and George E. Triandafilidis, Preprint No.2004, Apr 73
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739
On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441
Dsc, Practical Applications of Rock Mechanics, Dewayne L. Misterek, CE:Feb 73:17
Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311
The Relation of Mineralogy and Microstructure to the Morphology and Trajectory of Rock Fractures Resulting from Dynamic Tensile Stress -- Abstract, S. Sriruang and B. Hamil, RM14:73:750
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589
Rock Mechanics Education -- A Panel Discussion, H. Douglas Dahl, K. E. Gray and Leonard Obert, RM14:73:747
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14:73:127
Rock Property Correlation, Crescent Mine, Idaho -- Abstract, E. H. Skinner, G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14:73:329
Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, W. Karwoski, Raghbir S. Sandhu and R. Singh, RM14:73:752
A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61
Site Consistent Rock Motion, Sterling B. Johnston, PO2:Nov 73:365:10140
Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409
Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121
Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14:73:223
Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25
A Study on a New Concept of Thermal Hard Rock Crushing, K. Thirumalai and J. B. Cheung, RM14:73:527
Support Potential of Hydraulic Backfill, William G. Pariseau and C. Daniel Kealy, RM14:73:501
Task Committee Report on Geological Conditions Affecting Pipeline Location, Clarence O. Walker, Preprint No.2036, July 73
Tensile and Compressive Cyclic Stresses in Rock -- Abstract, Bezalel C. Haimson, C. M. Kim and T. M. Tharp, RM14:73:748
Thermal Fracturing of Hard Crystalline Rock -- Abstract, P. J. Lauriello, RM14:73:751
Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623
Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Rock Properties
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649
Evaluation of Hydraulic Properties of Rock Masses, J. C. Sharp, Y. N.T. Maini and T. L. Brekke, RM14:73:481
Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709
Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14:73:127
Rock Property Correlation, Crescent Mine, Idaho -- Abstract, E. H. Skinner, G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754

Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Rocks
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173
  TR:138:379

Rolling Friction
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
  TR:138:505

Romania
Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247

Roof Failures
Joint Effects in Bedded Formation Roof Control, Richard M. Barker and Fritz Hatt, RM14:73:247

Roofs
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72:1575:9052
  TR:138:359
Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
  TR:138:557
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
  Dsc: Joseph R. Passonneau, CE:Sept 72:61
  TR:138:319
Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3:Mar 73:321:9601
Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
  TR:138:473
Experiments and Studies on Unstiffened Thin Web Girders, Chingmiin Chern, Preprint No.1932, Apr 73
Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
  TR:138:185
Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71:2837:8604
  TR:138:52
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
  TR:138:515
Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN: ST:July 73:1708:9828
Practical Design for Seismic Loads in Wood Roof Framing, Warren H. Bower, Preprint No.1969, Apr 73
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096

Room and Pillar Mining
Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
  TR:138:310
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Multiple Mine Openings Subjected to Seismic Loading, Samuel Thomas Harding, RM14:73:739
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14:73:329
Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, W. Karwoski, Raghbir S. Sandhu and R. Singh, RM14:73:752

Root Systems
Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
  TR:138:580

Rotation
Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
  TR:137:935
Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621
Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
  TR:138:290

Rotational Flow
Irrotational Flow with Irregular Boundary Shapes, Albert G. Mercer, HY8:Aug 73:1209:9937
Ripple Profiles Modeled Mathematically, Albert G. Mercer and M. Ikramul Haque, HY3:Mar 73:441:9618

Roughness (Hydraulic)
Analysis of Flow in Channels with Gravel Beds, John A. Roberson and Steven J. Wright, HYB:Aug 73:63
Analysis of Resistance Over Staggered Roughness, Hsieh W. Shen and Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Extreme Roughness of Natural River Channel, Hans J. Leutheusser and W. Orville Chisholm, HY7:July 73:1027:9831
Flexible Roughness in Open Channels, Nicholas Kouwen and Tharakkal Eroman Unny, HY5:May 73:713:9723
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506
Turbulent Flows Past Boundaries with Small Streamwise Flows, John F. Kennedy, Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664

Roughness Coefficient
Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498

Routes
Environmental Aspects of Pipeline Route Selection, Francis J. Stastny, Preprint No.2076, Oct 73
Some Problems of Pipeline Route Selection, Frederick E. Culvern, George H. Watson and J. E. Wilson, Preprint No.2057, July 73

Route Surveys
Some Problems of Pipeline Route Selection, Frederick E. Culvern, George H. Watson and J. E. Wilson, Preprint No.2057, July 73

Routing
Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320
TR:138:456

Rubber
Elastomeric Bridge Bearings, Charles E. Rejcha, CE: May 72:46
Dsc: Knut S. Platou, CE:Jan 73:73
TR:138:233

Rubble Mounds
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
TR:138:119

Runge-Kutta Method
Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
TR:138:158

Runoff
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
TR:138:520
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie-Ling Chiang, HYB:Aug 73:371
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Elevation Dependent Model for Estimating Annual Runoff, Verne E. Smith, Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Evaluation and Control of Urban Runoff, John C. Schaake, Jr., Guy Leclerc and Brandan M. Harley, Preprint No.2103, Oct 73
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73: 519:10188
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Legal Problems in Water Pollution Control, Dwight F. Metzler, Preprint No.1891, Jan 73
Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73: 207:10005
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171: 9034
TR:138:373
Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773
TR:138:196
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
Pump Drainage in Carolina Bays, Coy W. Doty, IR4: Dec 73:465:10244
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
TR:138:443
Storm Water Runoff, Chester J. Ordon, Preprint No.2032, July 73
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
TR:138:270
A System for Regulation of Combined Sewage Flows, Charles V. Gibbs, Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
TR:138:506
Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
TR:138:523
Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
TR:138:145

Runoff Coefficient
Storm Water Runoff, Chester J. Ordon, Preprint No.2032, July 73

Runoff Forecasting
Storm Water Runoff, Chester J. Ordon, Preprint No.2032, July 73

Runways
Dynamic Programming Runway Configuration Schemes, Jason C. Yu and David R. Gibson, Preprint No.2034, July 73
Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Dsc: A. G. Delong, CE:June 73:24
Status of Airport Research and Development Program, Phillip L. Melville, ASC73:Mar 73:19
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724
Supported Decks for Commercial and Residential Development, Jacob Feld, Preprint No.2064, Oct 73

Rupturing
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173
Fluid Reaction and Impingement Loads, F. J. Moody, SDNPF:Dec 73:219
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151

Rural Areas
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
TR:138:520
Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650

Sacrificial Anodes
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Safety
Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Concrete Safety Barrier Design, Edwin C. Lokken, Preprint No.2062, July 73
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Construct Systems, Summary Report, W. H. Arch, Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823

Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Crane Safety, Suzy Fisher, CE:Feb 72:61
Dsc: Lee W. Crandall, CE:June 72:73
TR:138:93
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
TR:138:505
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260
Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875: 9978
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
TR:138:292
Fire and Blast, Theme Report, Duiliu Sfintesco, TB: 73:Ib-8-463
General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
TR:138:396
Illustrations of Reliability-Based Design, Mayasandra K. Ravindra, Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73
Illustrations of Safety Evaluation and Risk-Based Design, Bruce R. Ellingwood and Alfredo H.-S. Ang, Preprint No.2023, Apr 73
Impact of OSHA on Designers, Vernie G. Lindstrom, CE:July 73:85
Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949
Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901
Loading Function, State-of-Art Report 2, John Strating, TB:73:II-19-849
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72: 769:9355
TR:138:527
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Probabilistic Methods, Jack R. Benjamin, TB:73:Ib-10-1013
Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
TR:138:99
Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, Preprint No.2023, Apr 73
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861
Role of the Air Line Pilot in Air Transportation, W. T. Alford, ASC73:Mar 73:55
Safety Against Dynamic Forces, Masanobu Shinozuka, Preprint No.2323, Apr 73
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Safety Performance Standards for Highway Service, Peter G. Koltnow, Preprint No.1982, Apr 73
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
TR:138:46
Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
TR:138:214
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
TR:138:364
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914
TR:138:249
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
TR:138:447
What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032

Safety Belts
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
TR:138:89

Safety Devices
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Crane Safety, Suzy Fisher, CE:Feb 72:61
Dsc: Lee W. Crandall, CE:June 72:73
TR:138:93
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
TR:138:99
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
TR:138:447
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
TR:138:89

Safety Engineering
Designing to Prevent Liability Lawsuits, Norman B. Chew, CE:Jan 72:64
TR:138:44
Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
TR:138:214
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
TR:138:364
What a Good Safety Program Means, C. H. Shaw, Jr., CE:Oct 72:53
TR:138:447
Will OSHA Make The Construction Industry Safer, Darrell J. Turner, CE:Feb 72:58
TR:138:89

Safety Factor
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Concept of Structural Control, James T. P. Yao, ST7: July 72:1567:9048
TR:138:357
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Safety Factors
The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE: Aug 72:55
Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73: 65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
TR:138:377
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23

Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5: May 72:989:8874
  TR:138:233
Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892
Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545
Experiments and Studies on Unstiffened Thin Web Girders, Chingmiin Chern, Preprint No.1932, Apr 73
Factor of Safety of Connections, R. Delesques, TB: 73:II-19-890
Filtered Poisson Process for Random Vibration Problems, Ronald L. Racicot and Fred Moses, EM1:Feb 72:159:8725
  TR:138:110
Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
  Dsc: Carl H. Zweben, CE:Nov 72:49
  TR:138:357
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, C. William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
  TR:138:530
An Invariant Second Moment Reliability Format, Niels C. Lind, Preprint No.1921, Apr 73
Load Factor Variables, James G. Mac Gregor, TB:73: III-26-935
Rock Structure Design by Failure Probabilities, Robert G. Lundquist and Robert W. Heins, RM14: 73:329
Strength Factors for Composite Members, D. E. Allen, TB:73:III-26-940
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911

Safe Yield
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
  TR:138:528

Sag
Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
  TR:138:326

Salaries
American Engineering Unions, Hatim M. Hajj, PP2: Apr 73:213:9657
California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52
  TR:138:25
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
  TR:138:500
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
  TR:138:563
Consulting Firms Tackle Salary Guidelines, Kneeland A. Godfrey, Jr., CE:Aug 73:77
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, Preprint No.1980, Apr 73
Development and Implementation of Salary Guidelines, Schaefer J. Dixon and Richard G. Tait, PP3:July 73:393:9887
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
  TR:138:9
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Retirement Starts Now, Ernest W. Fair, CE:Nov 73: 77
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429: 10090
Which First Higher Fees or Higher Salaries, Cranston Rogers, CE:Aug 73:76
1971 ASCE Salary Survey, the Committee on Employment Conditions of the Department of Professional Activities, Charles J. Stevens, Chmn., PP3:July 72:393:9025
  TR:138:347

Salary Administration
Financial Tools for a Consulting Firm, Roy T. Sheehey, CE:Jan 72:66
  TR:138:48

Saline Water-Freshwater Interfaces
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717

Saline Water Intrusion
Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010

Salinity
Deepwater Ports for Superships, Leslie J. Goodier, CE:Nov 73:45
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
  Dsc: Raphael G. Kazmann, CE:Dec 73:22
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
  TR:138:600
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
  TR:138:530
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
  TR:138:192
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
  TR:138:344
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
  TR:138:229

Salt
Halting Deck Deterioration on Existing Bridges, Eugene E. Dallaire, CE:Oct 73:81
Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
  TR:138:148

Salt Marshes
Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342
  TR:138:529

Salt Removal
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
  TR:138:192

Salt Tolerance
Designing Bridge Decks That Won't Deteriorate, Eugene E. Dallaire, CE:Aug 73:43
  Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22

Salt Water
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Salt Water Intrusion
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
TR:138:600

Samplers
At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
TR:137:852

Samples
Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234
TR:138:454

Sampling
Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189

Sands
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
TR:138:521
Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8:Aug 73:617:9919
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577
TR:137:958
Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
TR:138:382
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793:10057
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
TR:138:476
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863
Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708
Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765
TR:138:183
A Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, Preprint No.1977, Apr 73
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
TR:138:104
Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125
Planning for Driving Offshore Pipe Piles, Richard A. Sullivan and Clarence J. Ehlers, CO1:July 73:59:9844
Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72:381:8844
TR:138:264
Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9:Sept 71:1249:8371
TR:138:8
Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
TR:138:544
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625
TR:138:113
Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648
TR:138:133
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
TR:138:431

Sandstone
Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14:73:223

Sand Waves
Determination of Kennedy's Parameter j for Dunes, M. Selim Yalin, TN: HY8:Aug 73:1287:9910
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72:1057:8952
TR:138:328

Sandwich Laminates
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
TR:138:479
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau Kai Cheung, EM5:Oct 72:1225:9233
TR:138:443

Sandwich Panels
Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1075:9240
TR:138:453
Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913
TR:138:261
Finite Element Method for Elastic Plastic Plates, Ted Belytschko and Milan Velebit, EM1:Feb 72:227:8724
TR:138:103

Sandwich Structures
Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David. J. Malcolm, EM3:June 73:445:9775
Nonlinear Buckling Analysis of Sandwich Arches, Parviz Sharifi and Egor P. Popov, EM5:Oct 71:1397:8417
TR:138:11
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
TR:138:459
Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
TR:138:515

San Francisco
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
San Francisco BCDC Revisited, E. Jack Schoop, CE:Apr 73:71
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008
Union Bank, Welton Becket and Associates, TB:73:C-P-326
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394

Sanitary Engineering
Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883:8601
TR:138:135
Agricultural Runoff-Characteristics and Control, Raymond C. Loehr, SA6:Dec 72:909:9406
TR:138:520

Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
TR:138:143

Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
TR:138:193

Bactericidal Properties of Chlorsulfamates, John E. Delaney and J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209

Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
TR:138:540

Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
TR:138:375

Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425
TR:138:49

Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
TR:138:22

Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Dsc: Carmen F. Guarino, CE:Mar 73:71; Martin Lang, CE:Mar 73:71
TR:138:427

Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296

Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
TR:138:290

Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85

Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578

Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
TR:138:580

Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
TR:138:552

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
TR:138:34

Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE:Oct 72:72
TR:138:468

Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
TR:138:261

Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6:Dec 73:773:10220

Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051

Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191

Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vµ, SA6:Dec 72:937:9401
TR:138:498

Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
TR:138:91

Drag Reduction Application in Fire Fighting Systems, Hillel Rubin, SA1:Feb 72:1:8697
TR:138:149

Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100

Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537

Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
TR:138:353

Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743
TR:138:251

Empirical Analysis of Commercial Solid Waste Generation, Truett V. DeGeare and Jerry E. Ongerth, SA6:Dec 71:843:8589
TR:138:112

Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
TR:138:399

Environmental Assessment of Resource Development, Kenneth D. Kerri, SA2:Apr 72:361:8811
TR:138:282

Environmental Planning and Ecological Possibilities, David A. Bella and W. Scott Overton, SA3:June 72:579:8994
TR:138:422

Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
TR:138:237

Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794

Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
TR:138:528

Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901

Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
TR:138:384

Fixed Resin Bed Chlorination of Water, Edgar J. Dewar and Morris Wayman, SA1:Feb 72:11:8703
TR:138:172

Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72:71:8720
TR:138:216

Floc Breakup in Turbulent Flocculation Processes, Denny S. Parker, Warren J. Kaufman and David Jenkins, SA1:Feb 72:79:8702
TR:138:164

Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
TR:138:341

Hydraulically Ventilated Underground Filter, David K. Hills and Ray B. Krone, SA6:Dec 71:851:8596
TR:138:128

Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808
TR:138:271

Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
TR:138:82

Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234
TR:138:454

Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419
TR:138:41

Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
TR:138:407

In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
Dsc: Floyd A. Skow, CE:Jan 73:84
TR:138:398

Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
TR:138:122

Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
TR:138:231

Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore E. Peterson, SA5:Oct 72:693:9253
TR:138:476

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
TR:138:312

Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
TR:138:187

Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
TR:138:534

Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
TR:138:513

Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715
TR:138:200

Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710
TR:138:181

Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
TR:138:156

Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
TR:138:326

Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
TR:138:360

Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
TR:138:569

Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72:927:9443
TR:138:576

Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
TR:138:304

Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58
Dsc: Frank M. Naglich, CE:June 73:26
TR:138:455

Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
TR:138:66

Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
TR:138:448

Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, Roy E. Ramseier, Chmn., SA5:Oct, 72:707:9237
TR:138:461

Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
TR:138:564

Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
TR:138:367

Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2:Apr 72:299:8833
TR:138:321

Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
TR:138:482

Sanitary Landfills: The Latest Thinking, CE:Mar 73:69

Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
TR:138:240

Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
TR:138:4

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430
TR:138:546

Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
TR:138:244

Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
TR:138:428

St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
TR:138:518

Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
TR:138:488

Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769

Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
TR:138:276

Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318
TR:138:14

Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879

Use of Irradiation in Plastic Wastes Disposal, Masaru Tanaka and Tsuyoshi Mifune, SA3:June 72:561:8990
TR:138:414

Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2:Apr 72:325:8852
TR:138:348

Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
TR:138:435

Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250
TR:138:467

Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
TR:138:390

Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429
TR:138:57

Sanitary Landfill

Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104

Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE:Oct 72:72
TR:138:468

How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
  Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE: Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
  TR:138:434
Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB: Aug 73:427
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
  TR:138:564
Sanitary Landfills: The Latest Thinking, CE:Mar 73: 69
Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250
  TR:138:467

Sanitary Sewers
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78

Saturated Soils
A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73
  TR:138:63
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73: 75:9484

Saturation
A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78
  Dsc: Norbert O. Schmidt, CE:Nov 72:56
  TR:138:165
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73: 75:9484

Savannas
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
  Dsc: George C. Govatos, CE:Mar 73:75
  TR:138:400

Savings
Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78

Scale (Ratio)
Selection of Maps for Engineering and Planning, by the Task Committee for the Preparation of a Manual on the Selection of Map Types, Scales and Accuracies for Engineering and Planning of the Committee on Cartographic Surveying of the Surveying and Mapping Division, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
  TR:138:420

Scale Effect
Cavitation and Size Scale Effects for Orifices, J. Paul Tullis and Rangachari Govindarajan, HY3:Mar 73: 417:9605
Equilibrium Beach Profile Scale-Model Relationship, Edward K. Noda, WW4:Nov 72:511:9367
  TR:138:558
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Siphons: Some Scale-Effects in Models, Richard B. Whittington and Kamil H.M. Ali, HY1:Jan 72:45: 8629
  TR:138:94

Scheduling
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211
Man-Computer Concepts for Planning and Scheduling, Boyd C. Paulson, Jr., CO2:Sept 72:275: 9204
  TR:138:546
New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Planning Monitoring Frequencies for CPM Projects, Douglas A. Elvers, CO2:Nov 71:211:8503
  TR:138:55
Project Planning and Scheduling: Unified Approach, Boyd C. Paulson, Jr., CO1:July 73:45:9830
Rate of Work Method: Simplified Project Control, John A. Cunningham and Edward P. Yarmowich, CE:Nov 73:62
Schedule Risk Analysis, Douglas W. Campbell, EPMT:73:47
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341

Schistosomiasis
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994

School Buildings
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128

Schools
Civil Engineering Education in the Future, Richard Tucker, PP1:Jan 72:97:8664
  TR:138:191
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
  TR:138:563
"Engineer Shortage" - A Myth That is as Bad as a Guile, Milton Alpern, PP4:Oct 73:441:10082
Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72: 769:9355
  TR:138:527
Systems Approach to Building, James R. Cagley, CE: Apr 73:59
  Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
  TR:138:555

Schools (Education)
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

Sciences
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
  TR:138:278

Scour
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
  TR:138:476

Hydrologic Evaluations in Bridge Pier Scour Design, Peter C. Klingeman, HY12:Dec 73:2175:10224
A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130

Scouring
Bed Scour at End-Dump Channel Constrictions, Bishnu Prasad Das, HY12:Dec 73:2273:10228

Sea Grasses
Role Of Benthic Plants in Fertilized Estuary, Thomas D. Waite and Ralph Mitchell, SA5:Oct 72:763:9293
TR:138:482

Sealants
Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
TR:138:280

Sealers
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537

Searching
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Search Theory
Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470

Sea Water
Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
TR:138:324
Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73:205:9781

Sea Water Corrosion
Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73

Sea Water Intrusion
Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
TR:138:549
Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
TR:138:425

Secondary Compression
Coefficient of Secondary Compression, Cholamreza Mesri, SM1:Jan 73:123:9515
Secondary Consolidation and Strength of a Clay, Chih-Kang Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510

Sedimentation
Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809
At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72:787:8890
TR:138:273
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455
Clarks Fork Yellowstone River Remote Sensing Study, James F. Ruff, John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
TR:138:247
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10:Oct 73:1659:10070
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051
Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138
Einstein Bed-Load Function at High Sediment Rates, Hans Albert Einstein and Farouk M. Abdel-Aal, HY1:Jan 72:137:8652
TR:138:117
Flume Experiments on Alternate Bar Formation, Hai Yain Chang, Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869
TR:137:871
Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN:SM10:Oct 73:912:10042
Initiation of Ripples by Artificial Disturbances, Philip B. Williams and Patrick H. Kemp, HY6:June 72:1057:8952
TR:138:328
Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
TR:138:40
Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699
Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station- and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259
Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060
TR:138:381
Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
TR:138:585
Sedimentation Effects of Hydroelectric Development, Jack F. Rasmussen, PO2:Oct 72:313:9254
TR:138:469
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73:1551:10033
Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591
TR:138:64
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY7:July 72:1295:9071
TR:138:391
Sediment Control Methods: D. Reservoirs, by the Task Committee for Preparation of Manual on Sedimentation of the Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
TR:138:213
Sediment Routing in Irrigation Canal Sytems, Khalid Mahmood, Preprint No.1905, Jan 73
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786
TR:137:856
Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11:Nov 73:2041:10167

Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293

Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12: Dec 72:2087:9426
TR:138:578

Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9: Sept 73:1653:10024

Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, Preprint No.2106, Oct 73

Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
TR:138:412

Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574

Sedimentation Tanks

Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3: June 73:347:9820

Sediment Control

Sediment Routing in Irrigation Canal Sytems, Khalid Mahmood, Preprint No.1905, Jan 73

Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574

Sediment Deposits

Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060
TR:138:381

Sediment Control Methods: D. Reservoirs, by the Task Committee for Preparation of Manual on Sedimentation of the Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671

Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12: Dec 72:2191:9456
TR:138:597

Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
TR:138:435

Sediment Load

Einstein Bed-Load Function at High Sediment Rates, Hans Albert Einstein and Farouk M. Abdel-Aal, HY1:Jan 72:137:8652
TR:138:117

Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, Vito A. Vanoni, Chmn., HY12:Dec 71:1979:8591
TR:138:64

Sediment Production

Sediment Control Methods: D. Reservoirs, by the Task Committee for Preparation of Manual on Sedimentation of the Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY4:Apr 73:617:9671

Sediments

Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
TR:137:852

Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342
TR:138:529

Friction Factors in Solid Material Laden Systems, Ertan R. Acaroglu, HY4:Apr 72:681:8854
TR:138:241

Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
TR:138:40

Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731

Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71: 1165:8279
TR:137:1023

Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167

Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
TR:138:412

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
TR:138:519

Woven Plastic Cloth Filters for Stone Seawalls, James W. Dunham and Robert J. Barrett, Preprint No.2018, Apr 73

Sediment Sampling

At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801

Sediment Transport

Bed-Material Transport and Bed Forms, Marion R. Carstens and Hilmi D. Altinbilek, HY5:May 72: 787:8890
TR:138:273

Critical Review of Sediment Transport Experiments, Richard H. Cooper, Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
TR:138:247

Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138

Incipient Motion and Sediment Transport, Chih Ted Yang, HY10:Oct 73:1679:10067

Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3: Mar 72:489:8765
TR:138:183

Model for Sediment Transport through an Estuary Cross Section, Herbert H. Stevens, Jr., David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279

Particle Overpassing on Flat Granular Boundaries, Craig H. Everts, WW4:Nov 73:425:10125

Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130

Sediment Transport Measurements in Gravel River, Albert B. Hollingshead, HY11:Nov 71:1817:8521
TR:138:47

Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167

Sediment Transport System in a Gravel-Bottomed Stream, Robert T. Milhous and Peter C. Klingeman, HYB:Aug 73:293

Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056

Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, Preprint No.2106, Oct 73

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
TR:138:519

Sediment Yield

Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73: 793:9748

Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
TR:138:585

Seepage

- Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
  - TR:138:491
- Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
- Analysis of Seepage into Ground-Water System, Adigun Ade Abiodun, TN: HY7:July 73:1203:9827
- Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607
- Approximate Solution to Flow Problems Under Dams, Demetrious G. Christoulas, SM11:Nov 71:1573:8528
  - TR:138:84
- Changing Role of Water Conveyance Systems, Gaylord V. Skogerboe and Wynn R. Walker, Preprint No.1880, Jan 73
- Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
  - TR:138:489
- Dispersion From Pit in Uniform Seepage, Bruce W. Hunt, HY1:Jan 73:13:9474
- Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553
- End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3:Mar 72:541:8794
  - TR:138:216
- Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169
  - TR:137:978
- Inverse Solution to Three-Dimensional Flows, Roland W. Jeppson, EM4:Aug 72:789:9110
  - TR:138:374
- New Method for Solving Seepage Problems in Nonhomogeneous Media, I. I. Lyashko and G. E. Mistetskii, EM4:Aug 73:639:9956
- Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73:603:9912
- Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
- Piping in Earth Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-589
- Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543:9422
  - TR:138:594
- Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
- Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201
- Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
  - TR:138:425
- Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
  - TR:138:511
- Seepage from Shallow Open Channel, Bruce W. Hunt, HY5:May 72:779:8875
  - TR:138:252
- Seepage From Shallow Reservoir, Bruce W. Hunt, HY1:Jan 73:23:9476
- Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1:Mar 72:13:8777
  - TR:138:185
- Seepage into a Sheet Pile Cofferdam, B. S. Rama Rao and J. Visweswara Rao, HY9:Sept 73:1515:10001
- Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
  - TR:138:282
- Studies on Seepage from Canals with Partial Lining, Kanakatti Subramanya, Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197
- Summary Representation Applied to Seepage Problems, Antonio Santos-Moreno, Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738
  - TR:138:144
- Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243
- Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737
  - TR:138:138
- Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807
- Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
  - TR:138:145

Seepage Control

- Stone Asphalt Cores Waterproof French Dams, Victorien Lelu, CE:Apr 72:70
  - TR:138:206

Segregation Process

- Product Segregation on Liquid Petroleum Pipelines, John B. Benear, Preprint No.2056, July 73

Seiches

- Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222

Seismic Design

- Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
- Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115
- Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950
- Aseismic Design Criteria for Electrical Facilities, Richard B. Fallgren, Paul C. Jennings and J. L. Smith, Preprint No.2014, Apr 73
- Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299
- Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, Preprint No.1970, Apr 73
- The Balanced Risk Concept: New Approach to Earthquake Building Codes, John H. Wiggins, CE:Aug 72:55
  - Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73:65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
  - TR:138:377
- Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
  - TR:138:433
- Bedrock Verification Program for Davis-Besse Nuclear Power Station, Richard A. Millet and Douglas C. Moorhouse, SDNPF:Dec 73:89
- Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
- Designing for Seismic Soil-Structure Interaction, Richard A. Parmelee, Preprint No.1985, Apr 73
- Design of a Hydroelectric Powerplant in an Area of High Seismicity, Marian Pona and A. B. Arnold, Preprint No.1959, Apr 73
- Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, R. P. Kassawara and D. A. Peck, SDNPF:Dec 73:73
- Earthquake Ground Motion, State-of-Art Report I, George W. Housner, TB:73:Ib-6-159

Earthquake Hydrodynamic Forces on Arch Dams, Parambakatoor R. Perumalswami and Lakshmidhar Kar, EM5:Oct 73:965:10060
Earthquake Repairs, Kaiser Hospital, Panorama City, California, Donald R. Strand, Preprint No.1996, Apr 73
Earthquakes -- We Live With Them But Don't Love Them, Arthur L. Elliott, Preprint No.1927, Apr 73
Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
Foundation Problems for Large Earthquakes, James D. Roberts and William F. Jones, Preprint No.1943, Apr 73
Gas Line Response to Earthquakes, John D. McNorgan, Preprint No.1975, Apr 73
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, Toshihiko Hisada, TB:73:Ib-6-267
A New Look at California Dams and Earthquakes, Clifford J. Cortright, Preprint No.2011, Apr 73
Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, Preprint No.1929, Apr 73
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Practical Design for Seismic Loads in Wood Roof Framing, Warren H. Bower, Preprint No.1969, Apr 73
Quake Lesson from Managua: Revise Concrete Building Design, Mark Fintel, CE:Aug 73:60
Repair of Seismic Damage to Aboveground Pipelines, Henry J. Miedema and John B. Olson, Preprint No.2026, Apr 73
Report on Conference on 1971 San Fernando, Ca., Earthquake, David J. Leeds, CE:May 72:58
  Dsc: Ramzi H. Ferahian, CE:Aug 72:68; Robert V. Whitman, CE:Aug 72:68
  TR:138:254
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247
Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, Preprint No.1951, Apr 73
Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73:1
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305:10145
Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135
  TR:138:393
Seismic Design of LASH Terminal, Robert T. Lawson and Henry J. Degenkolb, Preprint No.2007, Apr 73
Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143
Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142
Seismic Effects on an Earth Dam from an Explosion, Lyman W. Heller, Preprint No.1950, Apr 73
Seismic Ground Response of Dumbarton Bridge, Rudy J. Dietrich, Preprint No.1998, Apr 73
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73:281:10164
Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, Preprint No.1979, Apr 73
Shock and Impulse Loadings as Related to Seismic Design, James F. Halsey, Preprint No.1962, Apr 73
Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9:Sept 71:1249:8371
  TR:138:8
Site Response Procedures for Major Buildings, Neville C. Donovan, Preprint No.2027, Apr 73
Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318
Spectrum-Compatible Motions for Design Purposes, Nien-Chien Tsai, EM2:Apr 72:345:8807
  TR:138:184
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343
Structural Repair of Earthquake Damaged Buildings, Jack M. Fratt, Preprint No.1973, Apr 73

Seismic Investigations

In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904
  TR:138:293

Seismic Properties

Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72:273:9242
  TR:138:419
Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73:1

Seismic Stability

Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177
Seismic Stability of Upper San Leandro Dam, Bernard B. Gordon, David J. Dayton and Khosrow Sadigh, Preprint No.2025, Apr 73

Seismic Studies

A Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, Preprint No.1977, Apr 73
A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323
Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320

Seismic Surveys

Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48

Selective Level Releases

Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73:1401:10018

Series (Mathematics)

Anisotropic Beams by Moment-Differential Method, Jun W. Lee and John E. Johnson, EM6:Dec 73:1283:10207
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73:1023:10054

Service Life

Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747

Services

Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307

Settlement (Structural)

The Baldwin Hills Reservoir Failure in Retrospect, Arthur Casagrande, Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551

Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577
  TR:137:958
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
  TR:138:374
Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, Preprint No.1986, Apr 73
Constructional Deformations in Rockfill Dam, Arthur Penman and Andrew Charles, SM2:Feb 73:139:9560
Design and Performance of Deep Foundations, Bramlette McClelland, PES:73:II-111
Design and Performance of Deep Foundations -- Reporter's Summary, Pablo Girault, PES:73:III-211
Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853
Effects of Foundations on Adjacent Structures, State-of-Art Report 3, E. Horvat and Cornelius van der Veen, TB:73:Ia-11-905
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206
Embankments on Soft Ground, Laurits Bjerrum, PES:73:II-1
Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49
Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026
Foundation Failure, Jacob Feld, CE:June 73:89
  Dsc: M. D. Morris, CE:Aug 73:20
Foundations and Abutments -- Bennet and Mica Dams, Harold K. Pratt, Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
  TR:138:493
Foundations on the Crust of Sensitive Clay Deposits, R. J. Mitchell, Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497
  TR:138:73
Hydraulic Fracturing in Low Dams of Dispersive Clay, James L. Sherard, Rey S. Decker and Norman L. Ryker, PES:72:I-653
Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
  TR:138:43
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
  TR:138:337
KCI Airport Planned for Jet Age, Edwin Joe Runyan, CE:Nov 72:41
  TR:138:480
Lateral Deformation of a Dam Embankment, Richard B. Catanach and Thomas N. McDaniel, PES:72:I-867
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
  TR:138:439
Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435
Settlement Due to Chemical Attack of Soils, Robert G. Lukas and Robert J. Gnaedinger, Jr., PES:72:I-1087
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
  TR:138:276
Settlements of Pile Groups, Bengt B. Broms, PES:73:III-181
Shallow Foundations, Douglas C. Moorhouse, PES:73:II-71
Shallow Foundations -- Panel Presentation, Carl B. Crawford, PES:73:III-165
Simplified Method to Calculate Settlement Beneath Footings, Max L. Calhoon, CE:Feb 72:73
  TR:138:110
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967
Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008
Soil-Structure Interaction -- Opening Remarks, Ralph B. Peck, PES:73:III-249
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41
Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald York, CE:Aug 73:56

Settling Basins
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
  TR:138:296
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051

Sewage
*Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
  Dsc: Carmen F. Guarino, CE:Mar 73:71; Martin Lang, CE:Mar 73:71
  TR:138:427
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
  TR:138:580
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419
  TR:138:41
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
  Dsc: Floyd A. Skow, CE:Jan 73:84
  TR:138:398
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
  TR:138:156
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365:9879
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103
  TR:138:430

Sewage Bacteria
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489:9944

Sewage Disposal
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
  TR:138:296
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
  TR:138:552
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262
  TR:138:535
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
  TR:138:442

Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
  Dsc: Richard D. Harza, CE:July 73:28; William A. Drewry, CE:Sept 73:29; Glenn W. Rehberger, CE:Sept 73:29
The Prairie Plan, Frank L. Kudrna, Preprint No.1890, Jan 73
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
  TR:138:240
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9:Sept 73:1531:10004
Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
  Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE:May 73:58
  TR:138:221
Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60
  TR:138:139
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783

Sewage Effluents

Carbon and Nitrogen as Regulators of Algal Growth, Edward G. Foree and Charles R. Scroggin, EE5:Oct 73:639:10043
Effects of Irradiation of Secondary Effluent, David D. Woodbridge, William R. Garrett and Pricilla C. Cooper, Preprint No.2085, Oct 73
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1:Feb 73:73:9557
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
  Dsc: Richard D. Harza, CE:July 73:28; William A. Drewry, CE:Sept 73:29; Glenn W. Rehberger, CE:Sept 73:29
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103
  TR:138:430

Sewage Filtration

Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
  TR:138:240
Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103
  TR:138:430

Sewage Sludge

Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250
  TR:138:467
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Sewage Treatment

Aeration System for Large Navigable Rivers, William Whipple, Jr. and Shaw L. Yu, SA6:Dec 71:883:8601
  TR:138:135
Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
  TR:138:143
Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489:9944
Design and Economics of Joint Wastewater Treatment, W. Wesley Eckenfelder, Jr., SA1:Feb 72:153:8746
  TR:138:261
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Electroprecipitation of Phosphate from Sewage, E. I. Onstott, William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
  TR:138:381
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
  TR:138:399
Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
  TR:138:384
Generic Feed Forward Control of Activated Sludge, John J. Davis, Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419
  TR:138:41
Kinetics as Design Criteria for Post Chlorination, Panos Kokoropoulos and George P. Manos, EE1:Feb 73:73:9557
Master Sewerage System for Metropolitan Manila, John O. Schmidt, SA1:Feb 72:125:8712
  TR:138:187
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
  TR:138:327
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
  TR:138:66
Process Kinetics for Denitrification, Walter K. Johnson, SA4:Aug 72:623:9153
  TR:138:448
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
  TR:138:367
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103
St. Louis Cleans up the Mississippi, CE:May 72:61
  Dsc: Eugene T. Jensen, CE:Aug 72:41; S. J. Fenves, F. C. McMichael and C. L. Dym, CE:Aug 72:41; Oskar S. Bray, CE:Sept 72:94; John M. Henderson, CE:Nov 72:62; Edgar T. Moore, Jr., CE:Nov 72:62; LeRoy VanKleeck, CE:Jan 73:57; Harold H. Munger, CE:Jan 73:84
  TR:138:259
Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778
Wastewater Management Studies by the Corps of Engineers, Willard Roper, Preprint No.1917, Jan 73
Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044

Sewage Treatment Plants

Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85
Comprehensive Sewage Plan Involves Open Space Preservation, Chung Y. Li, CE:Jan 73:85
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
  Dsc: Richard D. Harza, CE:July 73:28; William A. Drewry, CE:Sept 73:29; Glenn W. Rehberger, CE:Sept 73:29

New Pier in Jamaica Bay, Remig A. Papp, CE:Aug 72:52
TR:138:372
Polyethylene Pipe Used For 36-in. Sewage Outfall, CE:Oct 72:58
Dsc: Frank M. Naglich, CE:June 73:26
TR:138:455
Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78

Sewerage
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
TR:138:375

Sewer Pipes
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050

Sewers
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
TR:138:574
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Design of Optimal Sewerage Systems, Yerachmiel Argaman, Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, Preprint No.1898, Jan 73
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Evaluation and Control of Urban Runoff, John C. Schaake, Jr., Guy Leclerc and Brandan M. Harley, Preprint No.2103, Oct 73
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796
Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72:1575:9206
TR:138:486
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
TR:138:534
The Outfall Sewer Story, Edward B. Fitzpatrick, Jr., Preprint No.2107, Oct 73
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
TR:138:156
Polyethylene Pipe Slipped into Defective Sanitary Sewer, Thomas S. Harlan and William B. Allman, CE:June 73:78
Restoring Subsurface Drain Performance, Luther B. Grass and Arnold J. MacKenzie, IR1:Mar 72:97:8759
TR:138:90
Sanitary Sewer Bedding Scored as Underdrain Conduit, Robert L. McFall, CE:May 72:51
TR:138:240
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE:May 73:58
TR:138:221

Shadows
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259

Shafts (Excavations)
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845

Shale
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
TR:138:472
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023

Shales
Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703

Shallow Water
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535

Shear
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
TR:138:551
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5:May 72:1119:8916
TR:138:271
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271
Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179:10189
Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, Preprint No.1934, Apr 73
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365
Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Model Investigations of Shear Wall Structures, Alexander Coull and A. W. Irwin, ST6:June 72:1223:8936
TR:138:284
Optimal Plastic Design for Bending and Shear, George I.N. Rozvany, TN: EM10:Oct 73:1107:10041
Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363:9328
TR:138:531
Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Some Elements for Analysis of Plate Bending, Robert D. Cook, EM6:Dec 72:1453:9447
TR:138:590
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27

Shear Distribution
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709

Shear Flow

Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
A Field Laboratory for Stratified Flow Studies, P. C. Chang and A. Lin, ISSF:Aug 72:501
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81
Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72: 1:8634
TR:138:85
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and B. S. Pani, HY7:July 72:1101:9009
TR:138:350
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
TR:138:435

Shear Modulus

Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
TR:138:43
In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904
TR:138:293
Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
TR:138:588
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71: 1451:8415
TR:138:3
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
TR:138:431

Shear Properties

Punching Shear Characteristics of RHS Joints, Narsing M. Patel, William J. Graff and Ardis H. White, Preprint No.1963, Apr 73

Shear Resistance

Extension Tests on Soft Clays Without Membranes, T. S. Ramanatha Iyer, TN: SM6:June 73:486:9815

Shear Strain

Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
TR:138:382
Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844
TR:138:264

Shear Strength

Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
TR:138:472
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156
Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793: 10057
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631
Design of Containment Base Mats, Anil K. Kar, SDNPF:Dec 73:323
Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
TR:138:160
Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129: 9377
TR:138:553
Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
TR:138:406
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
TR:138:189
Fly Ash as Structural Fill, Anthony M. DiGioia and William L. Nuzzo, PO1:June 72:77:8980
TR:138:175
General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73: 365:9604
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Punching Failure of Slabs → Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
TR:138:237
Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703
Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329
TR:138:533
The Shear Strength of Reinforced Concrete Members, by the Task Committee on Masonry and Reinforced Concrete of the Structural Division, James G. MacGregor, Chmn., ST6:June 73:1091: 9791
Shear Strength of Reinforced Concrete Members, James G. MacGregor, Preprint No.1995, Apr 73
Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203
Stiffening Effect of Light Cladding, State-of-Art Report 4A, E. R. Bryan and J. M. Davies, TB:73: II-17-643
Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53: 9471
Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8049
TR:138:5
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
TR:138:467

Shear Stress

Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73: 793:9748
Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
TR:138:155
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72: 447:8836
TR:138:231

Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733
Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
TR:138:328
Torsion of Multilayered Rectangular Section, John R. Booker and Sritawat Kitipornchai, EM5:Oct 71:1451:8415
TR:138:3
Wall Shear Stress Measurements with Hot-Film Sensors, Oner Yucel and Walter H. Graf, HYB:Aug 73:55

Shear Tests
Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
TR:138:406
Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9:Sept 73:687:10019
Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
TR:138:328

Shear Waves
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., Preprint No.1952, Apr 73

Sheet Flow
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733

Sheet Piling
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Sheets
Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828

Shells (Structural Forms)
Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
TR:138:311
Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3:June 72:731:8998
TR:138:337
Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72:1575:9052
TR:138:359
Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
TR:138:557
Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5:Oct 72:1115:9247
TR:138:471
Buckling of Arbitrary Open Cylindrical Shells, Jack W. Vetter and Donald E. Boyd, EM1:Feb 72:177:8726
TR:138:115
Buckling of Shells: An Old Idea with a New Twist, John Roorda, EM3:June 72:531:8951
TR:138:266
Buckling of Shells -- General Introduction and Review, Ernest F. Masur, Preprint No.2000, Apr 73
Buckling Stress States of Cylindrical Shells, Ihsan Mungan, Preprint No.1994, Apr 73
Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73:2097:10072
Concentrated Loads Applied to Shallow Shells, Rudolf Elling, EM2:Apr 73:319:9651
Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1075:9240
TR:138:453
Deformation in Multiple Tier Cylindrical Shells, James H. Williams, Jr., TN: EM10:Oct 73:1114:10041
Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989
Elastic-Plastic Analysis of Cylindrical Shells, Nabil A. Shoeb and William C. Schnobrich, EM1:Feb 72:47:8717
TR:138:96
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
TR:138:473
Experiments with Elastic Folded Plate Models, Stuart E. Swartz and Vernon H. Rosenbraugh, EM3:June 72:711:8992
TR:138:325
Finite Element Analysis of Inflatable Shells, Chin-Tsang Li and John W. Leonard, EM3:June 73:495:9802
Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, Preprint No.2077, Oct 73
Generalization of Plate Finite Elements to Shells, Robert G. Vos, EM2:Apr 72:385:8828
TR:138:223
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595:9629
Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
TR:138:101
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633:9074
TR:138:376
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
TR:138:577
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Lagrangian Formulation of Sandwich Shell Theory, Peter G. Glockner and David J. Malcolm, EM3:June 73:445:9775
Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143
Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677
Nonlinear Layered Analysis of RC Plates and Shells, Frank R. Hand, David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860
Nonlinear Sandwich Shell and Cosserat Surface Theory, David J. Malcolm and Peter G. Glockner, EM5:Oct 72:1183:9244
TR:138:459
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093
On The Nonlinear Theory of Shells, Gerald A. Wempner, Preprint No.2095, Oct 73

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
TR:138:515
Record Concrete Shell Roof Featured in Coliseum, Yue-Chyou Yang, CE:June 72:51
Dsc: Felix Kulka, CE:Oct 72:76
TR:138:275
Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744
Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999:10096
Some Orthotropic Shells with Bending Suppressed, S. V. Kulkarni, Ricardo Chicurel and Daniel Frederick, EM3:June 73:537:9808
Stability of Hyperboloidal Shells, Daniel R. Veronda and Victor I. Weingarten, Preprint No.2112, Oct 73
Stability of Inelastic Shells, Lawrence H.N. Lee, Preprint No.2028, Apr 73
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
TR:138:566
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6: Dec 72:1417:9446
TR:138:586
Thick Shell and Oriented Surface Theories, Frank G. Bercha and Peter G. Glockner, EM4:Aug 72:823:9095
TR:138:355
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
TR:138:431

Shell Structures
Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
TR:138:487
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70
TR:138:262

Shelters
Analysis of an 80-Foot Aircraft Shelter for Construction Stresses, J. P. Balsara and R. E. Walker, Preprint No.2019, Apr 73
Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
TR:138:507

Shielding
Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716
TR:138:89

Shields
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697

Shields (Tunneling)
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
TR:138:248
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173
TR:138:379
The Viennese Subway System, Max Ellinger, TB:73:C-P-269

Shipbuilding
New Drydock for American Ship Building Company, Lyle R. Amiet, WW2:May 73:137:9712
Very Large Graving Docks, Jay J. Hassani, Preprint No.1938, Apr 73
1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Ship Hulls
Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
TR:138:101

Shipping Containers
Containerization - A System Still Evolving, Walter C. Boyer, WW4:Nov 72:461:9317
TR:138:494

Ships
Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
Planning Aspects for Variable and Fixed Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Seismic Design of LASH Terminal, Robert T. Lawson and Henry J. Degenkolb, Preprint No.2007, Apr 73
Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754

Shock
An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733
TR:138:126
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, Preprint No.1937, Apr 73

Shock (Mechanics)
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Shock Spectra
Dynamic Response of Structures to Combined Effects of Ground Shock and Air Blast, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, Preprint No.1989, Apr 73

Shock Tests
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Shock Waves
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Response of Completely Mixed Systems to Hydraulic Shock Loads, Thazhethil K. George and Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Shore Protection
Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
Dsc: George C. Govatos, CE:Mar 73:75
TR:138:400
New Shape in Shore Protection, Greer E. Coursey, CE:Dec 73:68

Shoring
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40
Foundations, State-of-Art Report 4, Edward E. White, TB:73:Ia-4-715

Short Takeoff Aircraft
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544

Shotcrete
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Shrinkage
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695
  TR:138:16
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, Adam M. Neville, TB:73:III-25-765
Lamellar Tearing of Welded Steel, CE:Dec 73:34
Prediction of Load-Induced Dimensional Changes in Concrete, L. J. Parrott and J. M. Illston, Preprint No.1935, Apr 73
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454
  TR:138:598

Shrinkproofing
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1: Feb 72:17:8695
  TR:138:16

Shutdowns
Seismic Instrumentation for Nuclear Power Plants, Andrew Morcos and Shih-Lung Chu, PO2:Nov 73: 281:10164

Sidesway
Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
  TR:138:161
Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937
  TR:138:288
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311
Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598
Stability of Unbraced Single-Bay Multistory Frames, Abel Helmy Salem, ST2:Feb 73:223:9552

Signals
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
  TR:138:292
Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597: 9915

Signs
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928

Silting
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Silts
Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042

Silver Iodide
Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9: Sept 72:1515:9187
  TR:138:466

Similitude
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73: 1401:10018
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Simulation
Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387: 9128
  TR:138:430
Application of Simulation Techniques to Small Project Analyses, Milton L. Holloway and Lial F. Tischler, Preprint No.1907, Jan 73
Benefit-Cost Analysis of Delay Reduction With STOL, Joan B. Barriage and Stanley P.E. Price, TE1:Feb 73:43:9544
Bridge Beam Response to Simulated Traffic, Fred P. Wagner, Jr. and Kishor C. Mehta, Preprint No.1964, Apr 73
Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668
  TR:138:132
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Flood Control Developed and Operated with Simulation, John M. Tellemer, PP1:Jan 72:55:8661
  TR:138:154
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612
Fourier Analysis of Simulated and Recorded EMG, Gyan C. Agarwal and Gerald L. Gottlieb, Preprint No.2035, July 73
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155
High-Speed Train Simulation Using Hydrodynamics, Robert A. Helfinstine and Charles Dalton, EM2: Apr 72:357:8804
  TR:138:162
Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634
Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571: 9960
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201

Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, Preprint No.1976, Apr 73

Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020

Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056

Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4: Aug 73:479:9943

Simulation of Impoundment Turbidity Structure, Darrell G. Fontane, Preprint No.2083, Oct 73

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224

Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35

Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
TR:138:336

Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947

Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509

Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466

Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941

Use of Simulation in Airport Planning and Design, Dana E. Low, Preprint No.2038, July 73

Sinks

Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581

Siphons

Siphons: Some Scale-Effects in Models, Richard B. Whittington and Kamil H.M. Ali, HY1:Jan 72:45: 8629
TR:138:94

Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
TR:138:428

Site Selection

Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193: 10016

Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165

The Impact of Urban Planning on Electric Utilities, Alfred R. Golze, Preprint No.1903, Jan 73

Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
TR:138:167

Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
TR:138:54

Logical Approaches to Power Supply and Environment, Riley D. Woodson, PO2:Oct 72:181: 9257
TR:138:525

New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93: 8981
TR:138:201

Sanitary Landfills: The Latest Thinking, CE:Mar 73: 69

Site Surveys

Environmental Aspects of Site Selection, Eugene F. Dudley, PO1:June 72:21:8971
TR:138:120

Skew Bridges

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013
TR:138:315

Model Studies of Skew Multicell Girder Bridges, William G. Godden and Mohammad Aslam, EM1: Feb 73:201:9576

Skid Resistance

Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Dsc: A. G. Delong, CE:June 73:24

Pennsylvania Tries Mastic Asphalt Pavement, Dale B. Melott, CE:June 73:56

Sprinkle Treatment Increases Highway Skid Resistance, George W. Maupin, Jr., CE:Feb 72:51
TR:138:86

Skiing

Civil Engineering for Recreation, Ernst W. Kiesling and George A. Whetstone, CE:Apr 72:50
TR:138:182

Skin Effect

Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

Skin Friction

Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71: 1269:8367
TR:138:7

Skyscrapers

Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72: 1069:8911
TR:138:258

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
TR:138:368

Model Investigations of Shear Wall Structures, Alexander Coull and A. W. Irwin, ST6:June 72: 1223:8936
TR:138:284

Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72: 327:8675
TR:138:139

Slabs

Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437

Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515

Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
TR:138:596

Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834

Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805

Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617

Meeting the Challenge of Winter Construction, Allen T. Johnson, CE:Nov 72:68
TR:138:507

Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
TR:138:429

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Prefabricated Highways, William Zuk, TE2:May 72: 387:8895
TR:138:204

Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488

Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
TR:138:566
Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8: Aug 73:1797:9911

Slender Bodies
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248

Slenderness Ratio
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348
TR:138:547
Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978
TR:138:304
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72: 1007:8872
TR:138:230
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Sliding
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
TR:138:472
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
TR:138:582

Slime
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
TR:138:399

Slip Joints
Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Dsc: James F. Sato, CE:Sept 72:57
TR:138:345

Slipping
Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72: 2663:9423
TR:138:578
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72: 13:8625
TR:138:113

Slope
Sedimentation in Mangla Reservoir, Roman W Szechowycz and M. Mohsin Qureshi, HY9:Sept 73: 1551:10033

Slope Deflection Method
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481

Slopes
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Structural Systems for Very Tall Buildings, Hannskarl Bandel, TB:73:Ia-3-627

Slope Stability
Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10: Oct 73:783:10097
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
TR:138:189
Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9: Sept 73:687:10019
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, C. William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
TR:138:530
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Landslides and Foundation Design, Hsai-Yang S. Fang, TB:73:Ia-11-1012
Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, Preprint No.1979, Apr 73
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566

Sludge
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Dsc: Carmen F. Guarino, CE:Mar 73:71; Martin Lang, CE:Mar 73:71
TR:138:427
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
TR:138:399
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73: 923:10200
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443
TR:138:576
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205: 9971

Sludge Disposal
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Dsc: Carmen F. Guarino, CE:Mar 73:71; Martin Lang, CE:Mar 73:71
TR:138:427
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Permeability of High Ash Papermill Sludge, Orlando B. Andersland and Robert W. Laza, SA6:Dec 72: 927:9443
TR:138:576
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205: 9971
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Sludge Drying

Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537

Sludge Treatment

Design and Operation Model of Activated Sludge, Joseph H. Sherrard and Alonzo W. Lawrence, EE6: Dec 73:773:10220

Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, Alexander Penman, CE:Nov 73:65

Slug Flow

Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045

Sluice Gates

Solution of Flow Under Sluice Gate, Yong K. Chung, EM1:Feb 72:121:8744
TR:138:152

Slurries

Behavior of Bored Piles in Beaumont Clay, Michael W. O'Neill and Lymon C. Reese, SM2:Feb 72:195: 8741
TR:138:197

Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075

Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42
Dsc: D. Earl Jones, Jr., CE:Dec 73:32

Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
TR:138:248

Slurrying

Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845

Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259

Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145

Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247

Small Watersheds

Flood Frequency Estimating Techniques for Small Watersheds, George Fleming and Delbert D. Franz, HY9:Sept 71:1441:8383
TR:138:23

Smoke

Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061

Smoothness

Manning's Coefficient for Smooth Pipes, Henry Liu, SA2:Apr 72:353:8830
TR:138:312

Snails

Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994

Snow

Volume of Snowmelt Intercepted by Logging Roads, Edward R. Burroughs, Jr., Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
TR:138:145

Snowfall

Ecological Consequences of Winter Cloud Seeding, Theodore W. Weaver and Arlin B. Super, IR3:Sept 73:387:9988

Snow Surveys

Reservoir Operation Using Snow Survey Data, Phillip E. Farnes, HYB:Aug 73:249

Social Aspects

Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
TR:138:35

Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
TR:138:474

Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255

Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151

Social Change

Pollution, Politics and Protest, Charles L. Gould, PP1:Oct 71:23:8468
TR:138:39

Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884

Social Function

The Making of a "Pro" -- A Faculty Viewpoint, Dan H. Pletta, Preprint No.2063, Oct 73

The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Milton Alpern, Preprint No.2073, Oct 73

Social Needs

Anticipating Urban Environmental Concerns for the Means of Transportation, Lawrence A. Wills, Preprint No.2101, Oct 73

Antidote for Environmental Hysteria, Samuel S. Baxter, PP1:Jan 72:1:8663
TR:138:180

Architectural Concerns are People Concerns, Frank L. Codella, Preprint No.2066, Oct 73

Are Civil Engineers Socially Responsible?, David Crump, CE:Jan 72:59
TR:138:35

Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
TR:138:60

The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667

Citizen Inputs to Public Works Projects, Desmond M. Connor, Preprint No.2069, Oct 73

Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73: 69:9599

The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73

The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
TR:138:277

The Civil Engineer of the Future - A Renaissance Man, David A. Novick and Sheldon Schumacher, PP1:Jan 73:9:9489

Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
TR:138:307

Consideration of Alternatives in Decisionmaking, Ellis L. Armstrong, Preprint No.1931, Apr 73

Considering Social Value in Engineering Projects, Charles G. Sudduth, PP1:Jan 72:43:8655
TR:138:96

Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4: Nov 72:807:9320
TR:138:456

Earthquake Hazard and Public Policy in California, Karl V. Steinbrugge and Carl B. Johnson, Preprint No.2009, Apr 73

Ecology - Rage and Reason, Robert Moses, PP3:July 72:331:9067
TR:138:474

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367: 9751

The Engineer and the Environment, C. Maxwell Stanley, CE:July 72:78
TR:138:352

The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
  TR:138:381
Engineering and Public Service - A Renaissance, William H. Wisely, PP1:Jan 73:1:9486
Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
  Dsc: Charles W. Griffin, Jr., CE:May 72:40; Daniel B. Halton, CE:May 72:40; Ray R. Davis, CE:July 72:77; Michael A. Murphy, CE:Aug 72:64; Ernest T. Ianni, CE:Sept 72:61
  TR:138:147
Engineering Policies, Politics and Pragmatism, Robert F. Baker, Preprint No.2006, Apr 73
The Engineer: Public Policy and Petroleum Pipelines, P. N. Gammelgard, Preprint No.2111, Oct 73
The Engineer's Role, Frederick J. Clarke, PP2:Apr 72:163:8825
  TR:138:264
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, David Mann, PP1:Jan 72:33:8657
  TR:138:107
Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985
Goals for Dallas Program, Erik Jonsson, CE:Sept 72:58
  Dsc: Mark Jordan, CE:May 73:45
  TR:138:394
Health Services Authority of Delaware, E. Wayne Martz, Preprint No.2068, Oct 73
The Highway and Its Neighborhood, Michael Lash, Preprint No.2113, Oct 73
Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137
In Defense of Dubos and Ellul, Kim de Rubertis, CE:Dec 72:51
  TR:138:534
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662
Introduction -- Planning and Design of Tall Buildings: Societal Aspects, Thomas C. Kavanagh, Preprint No.2066, Oct 73
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72:311:9059
  TR:138:452
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
Public Participation in Environmental Design of Flood Control Channels, Phillip F. Dunn, Jr., PP3:July 72:363:9051
  TR:138:432
Public Participation in Urban Transit Service, Michael G. Ferreri, TE4:Nov 73:701:10121
Public Policy: Who Speaks for the Engineer?, Augustine J. Fredrich, Preprint No.2051, July 73
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
  TR:138:170
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
The Role of the Civil Engineer in Statewide Health Planning, William H. Wisely, PP4:Oct 72:669:9284
  TR:138:592
Safety Performance Standards for Highway Service, Peter G. Koltnow, Preprint No.1982, Apr 73
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
  TR:138:325
Social Factors in Irrigation Design for Bangladesh, Stephen V. Allison and Kazi F. Jalal, Preprint No.1892, Jan 73
Social Problems: A Concern for Civil Engineers, Leland J. Walker, PP1:Jan 73:53:9494
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139
Societal Factors and Tall Buildings. State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
Some Reflections at Retirement Time, William H. Wisely, CE:Apr 72:45
  TR:138:174
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Systems and Concepts, Preface, Fazlur R. Khan, TB:73:Ia-1
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
Transportation Problem Formulation and Evaluation, R. W. Woodhead and R. H. Wortman, Preprint No.2042, July 73
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
  TR:138:358
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
  TR:138:194
Water and Society: Social Constraints and Resource Limitations, Evan Vlachos, Preprint No.1904, Jan 73
236 Housing - An Opportunity for Community Involvement, James D. Dannenbaum, PP1:Jan 73:107:9507

Social Participation
Anticipating Urban Environmental Concerns for the Means of Transportation, Lawrence A. Wills, Preprint No.2101, Oct 73
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
ASCE Concern with Professional Conduct, Eugene Zwoyer, CE:Oct 73:77
Berkeley Offers Professional Masters Degree, Howard D. Eberhart, CE:Nov 73:74
The Challenge of Environmental Protection, Dwight F. Metzler, PP2:Apr 73:197:9667
Citizen Inputs to Public Works Projects, Desmond M. Connor, Preprint No.2069, Oct 73
Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73:69:9599
The Civil Engineer in Appointed Public Positions, Albert C. Gribaldo, Preprint No.2015, Apr 73
The Civil Engineer in Appointed Public Positions, Albert C Gribaldo, PP3:July 73:361:9880
Consideration of Alternatives in Decisionmaking, Ellis L. Armstrong, Preprint No.1931, Apr 73
Ecological Benefits of Hydraulic Dredging, Thomas M. Turner, Preprint No.1874, Jan 73

Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
Engineering Policies, Politics and Pragmatism, Robert F. Baker, Preprint No.2006, Apr 73
The Engineer: Public Policy and Petroleum Pipelines, P. N. Gammelgard, Preprint No.2111, Oct 73
Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985
The Highway and Its Neighborhood, Michael Lash, Preprint No.2113, Oct 73
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
Public Affairs and Administrative Involvement, Walter G. Heintzleman, PP1:Jan 73:47:9509
Public Participation in Urban Transit Service, Michael G. Ferreri, TE4:Nov 73:701:10121
Public Policy: Who Speaks for the Engineer?, Augustine J. Fredrich, Preprint No.2051, July 73
Purdue Students Tackle Social Projects, David Brenchley, Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83
Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
  Dsc: Dean O. Chadwick, CE:Nov 73:38
San Francisco BCDC Revisited, E. Jack Schoop, CE:Apr 73:71
Social Factors in Irrigation Design for Bangladesh, Stephen V. Allison and Kazi F. Jalal, Preprint No.1892, Jan 73
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Surveys Required to Design Nonstructural Measures, L. Douglas James, HY10:Oct 73:1823:10062
Theory and Practice of Public Participation in Planning, George E. Willeke, Preprint No.1871, Jan 73
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Transportation Problem Formulation and Evaluation, R. W. Woodhead and R. H. Wortman, Preprint No.2042, July 73
Water and Society: Social Constraints and Resource Limitations, Evan Vlachos, Preprint No.1904, Jan 73

Social Reforms
Reflections on My Profession by a Black Civil Engineer, Benito A. Sinclair, PP3:July 73:357:9884

Social Values
Citizen Inputs to Public Works Projects, Desmond M. Connor, Preprint No.2069, Oct 73
Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047
  TR:138:554

Sociology
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
  TR:138:278

Soil Cement
Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
  TR:138:124
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12:Dec 72:1375:9454
  TR:138:598

Soil Chemistry
Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169
  TR:137:978

Soil Compacting
A Possible 1-Point System Method For Laboratory Compaction Testing, John J. Galvan, CE:Mar 72:78
  Dsc: Norbert O. Schmidt, CE:Nov 72:56
  TR:138:165

Soil Dynamics
Vibrations of Embedded Footings and Structures, Milos Novak, Preprint No.2029, Apr 73
Vibrations of Machine Foundations and Soil Dynamics Considerations, Dhirendra S. Saxena, Preprint No.1991, Apr 73

Soil Formation
Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
  TR:138:545

Soil Mechanics
Abutment and Foundation Treatment for High Embankment Dams on Rock, Reginald A. Barron, SM10:Oct 72:1017:9270
  TR:138:491
Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72:327:8827
  TR:138:235
Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10:Oct 73:783:10097
Analysis of an Inhomogeneous Elastic Half-Space, W. David Carrier, III and John T. Christian, TN: SM3:Mar 73:299:9632
Analysis of Piles in Soil Undergoing Lateral Movement, Harry G. Poulos, SM5:May 73:391:9740
Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
  TR:138:472
Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
  TR:138:521
Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8:Aug 73:617:9919
Bearing Capacities by Plasticity Theory, Hon-Yim Ko and Ronald F. Scott, SM1:Jan 73:25:9497
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73:433:9816
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1:9496
Bearing Capacity Theory From Experimental Results, A. Verghese Chummar, SM12:Dec 72:1311:9411
  TR:138:561
Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
  TR:138:125
Behavior of Laterally Loaded Piles: III -- Socketed Piles, Harry G. Poulos, SM4:Apr 72:341:8837
  TR:138:243
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577
  TR:137:958
Behavior of Wharf Affected by River Fluctuations, Richard A. Sullivan, SM9:Sept 72:939:9197
  TR:138:457

Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4: Apr 72:311:8817
TR:138:224

Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71: 1183:8372
TR:138:19

Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840

Clay Chemistry and Slope Stability, James K. Mitchell and Richard J. Woodward, TN: SM10:Oct 73:905:10042

Coefficient of Secondary Compression, Cholamreza Mesri, SM1:Jan 73:123:9515

Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075

Comments on Conventional Design of Retaining Structures, Leo Casagrande, SM2:Feb 73:181:9568

Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908

Compaction of Hydraulically Placed Fills, Willard J. Turnbull and Charles I. Mansur, SM11:Nov 73:939: 10170

Compaction of Sands By Repeated Shear Straining, T. Leslie Youd, SM7:July 72:709:9063
TR:138:382

Compaction of Slightly Organic Soils, Arley G. Franklin, Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873

Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
TR:138:51

Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
TR:138:374

Consolidation of Clay Layer in Two Dimensions, Sivajogi D. Koppula and Norbert R. Morgenstern, SM1:Jan 72:79:8674
TR:138:168

Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73: 365:9713

Consolidation of Porous Media with Non-Darcy Flow, James D. Schmidt and Russell A. Westmann, Preprint No.1986, Apr 73

Constructional Deformations in Rockfill Dam, Arthur Penman and Andrew Charles, SM2:Feb 73:139: 9560

Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793: 10057

Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
TR:138:489

Distribution of Wind Loads to Soils, State-of-Art Report 2, S. V. De Simone, TB:73:Ia-11-881

Drained Liquefaction Testing in Simple Shear, Dennison J. Pickering, TN: SM12:Dec 73:1179: 10189

Duplication of Dilatancy in Analysis of Jointed Rocks, Richard E. Goodman and Jacques Dubois, SM4:Apr 72:399:8853
TR:138:274

Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363
TR:138:541

Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237

Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399
TR:138:15

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Effect of Mica on K_0 Compressibility of Two Soils, Charles A. Moore, SM9:Sept 71:1275:8401
TR:138:33

Effect of Sampling on Compressibility of Soft Clay, Iraj Noorany and Iraj Poormand, TN: SM12:Dec 73:1184:10189

Effect of Seepage Stream on Artificial Soil Freezing, Hadi T. Hashemi and Cedomir M. Sliepcevich, SM3:Mar 73:267:9630

Effect of Seismic Loading on Undrained Clay Creep, Thomas L. Holzer and Kaare Hoeg, TN: SM1:Jan 73:283:9505

Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
TR:138:347

Elastic-Plastic, Large Deformation Response of Soil to Footing Loads, Hugh L. Davidson and Wai F. Chen, Preprint No.2070, Oct 73

Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72: 1325:9417
TR:138:575

Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Embankment Construction On Yielding Sea Bottom, Aris C. Stamatopoulos and Panaghiotis C. Kotzias, SM7:July 72:727:9066
TR:138:391

Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614

Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840
TR:138:253

Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
TR:138:160

Expansion of Cavities in Infinite Soil Mass, Aleksandar Sedmak Vesic, SM3:Mar 72:265:8790
TR:138:217

Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129: 9377
TR:138:553

Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49

Extension Tests on Soft Clays Without Membranes, T. S. Ramanatha Iyer, TN: SM6:June 73:486:9815

Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Failure Loads of Vertical Anchor Plates in Sand, William James Neely, John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Failure of Colluvial Slope, James V. Hamel and Norman K. Flint, SM2:Feb 72:167:8731
TR:138:189

Failure of Underwater Slope in San Francisco Bay, James M. Duncan and Albert L. Buchignani, SM9: Sept 73:687:10019

Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12: Dec 71:1657:8583
TR:138:95

Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
TR:138:141

Finite Element Method Accuracy for Wave Propagation Problems, Roger L. Kuhlemeyer and John Lysmer, TN: SM5:May 73:421:9703

Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026

Foundation Practices for Talbingo Dam, Australia, B. J. Wallace and J. I. Hilton, SM10:Oct 72:1081:9273
TR:138:492

Foundation Treatment for Embankment Dams on Rock, Elmer W. Stroppini, Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
TR:138:493

Geotechnical Properties of Hudson River Silts, Surendra K. Saxena and Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042
Guidelines for Compaction Control of Fill, Raymond J. Frost, TN: SM12:Dec 73:1189:10189
Heave and Lateral Movements Due to Pile Driving, D. Joseph Hagerty and Ralph B. Peck, SM11:Nov 71:1513:8497
  TR:138:73
Improved Behavior of Bell-Bottomed Poles, Kanakapura S. Subba Rao and H. V. Eswaraiah, PO1:May 73:155:9708
Incinerator-Residue-Fill Site Investigation, Robert J. Schoenberger and A. Alexander Fungaroli, SM10: Oct 71:1431:8451
  TR:138:65
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
  TR:138:487
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, Preprint No.1937, Apr 73
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, C. William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
  TR:138:530
Initial Settlement of Structures on Clay, David J. D'Appolonia, Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
  TR:138:43
In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72: 899:9202
  TR:138:464
In Situ Shear Wave Velocity by Cross-Hole Method, Kenneth H. Stokoe, II and Richard D. Woods, SM5:May 72:443:8904
  TR:138:293
The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
  TR:138:337
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Lateral Pressures from Soft Clay, Peter J. Moore and Graham K. Spencer, SM11:Nov 72:1225:9360
  TR:138:538
Lateritic Gravel Evaluation For Road Construction, J. W.S. de Graft-Johnson, Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
  TR:138:545
A Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, Preprint No.1977, Apr 73
Liquefaction Case History, Schaefer J. Dixon and Jack W. Burke, SM11:Nov 73:921:10133
Load Settlement Prediction for Piles and Piers, Harry G. Poulos, SM9:Sept 72:879:9170
  TR:138:439
Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
Low Velocity Projectile Penetration, Wen L. Wang, SM12:Dec 71:1635:8592
  TR:138:104
Mean Pore Sizes from Flow Measurements, Richard P. Long and Thomas F. Zimmie, TN: SM7:July 73: 583:9865
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240
Model Investigations of Pile Groups in Sand, Andrzej F. Tejchman, SM2:Feb 73:199:9579
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73: 603:9912
Oxidation and Heave of Black Shale, Robert M. Quigley, James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703
Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221
Polyurethane Foamed Plastics in Soil Grouting, Ted S. Vinson and James K. Mitchell, SM6:June 72:579: 8947
  TR:138:321
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Prediction Method for Projectile Penetration, James D. Murff and Harry M. Goyle, TN: SM11:Nov 73: 1033:10/48
Probabilistic Analysis of Seepage, Tien H. Wu, Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73: 323:9687
Rectangular Loads on Inhomogeneous Elastic Soil, Peter T. Brown and Robert E. Gibson, TN: SM10: Oct 73:917:10042
Reinforced Earth Retaining Walls, Kenneth L. Lee, Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Remote Sensing for Water Resources, George F. Sowers, CE:Feb 73:35
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73: 75:9484
Secondary Consolidation and Strength of a Clay, Chih-Kang Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Seed Wins Terzaghi Award, CE:Mar 73:59
Seepage Analysis of Earth Banks Under Drawdown, Chandrakant S. Desai, SM11:Nov 72:1143:9334
  TR:138:511
Seepage Through Dams with Horizontal Toe Drain, Mohammad S. Moayeri, SM5:May 72:461:8878
  TR:138:282
Seismic Analysis of Earth Dam-Reservoir Systems, Jamshid Ghaboussi and Edward L. Wilson, SM10: Oct 73:849:10053
Seismic Effects on Earth Dam from Explosion, Lyman W. Heller, TN: SM11:Nov 73:1038:10/48
Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844
  TR:138:264
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
  TR:138:276
Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
  TR:138:328
Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703
Simplified Procedure for Evaluating Soil Liquefaction Potential, H. Bolton Seed and Izzat M. Idriss, SM9: Sept 71:1249:8371
  TR:138:8
Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
  TR:138:423
Soil Motion Computations by Characteristics Method, Victor L. Streeter, E. Benjamin Wylie and Frank E. Richart, Jr., Preprint No.1952, Apr 73
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
  TR:138:481
Soil-Structure Interaction for Tall Buildings. State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967
Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318

Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medcaris, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
  TR:138:503
Stresses and Movements in Oroville Dam, Fred H. Kulhawy and James M. Duncan, SM7:July 72:653:9016
  TR:138:363
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625
  TR:138:113
Stress Propagation in a Frequency Dependent Material, Raymond N. Yong, Jean C. Dutertre and Raymond J. Krizek, Preprint No.2020, Apr 73
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
  TR:138:554
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
  TR:138:114
Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648
  TR:138:133
Three-Dimensional Finite Element Analyses of Dams, Guy Lefebvre, James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Tilting Foundations, Gerd F. Weissmann, SM1:Jan 72:49:8671
  TR:138:152
Time Effects on Dynamic Shear Modulus of Clays, William F. Marcuson, III and Harvey E. Wahls, SM12:Dec 72:1359:9442
  TR:138:588
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
  TR:138:179
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
  TR:138:431
Use of Cycloidal Arcs for Estimating Ditch Safety, Harold B. Ellis, SM2:Feb 73:165:9566
Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72:1291:9412
  TR:138:568
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12:Dec 72:1375:9454
  TR:138:598

Soil Moisture
Analysis of Coupled Heat and Moisture Diffusion By Finite Elements, Thomas L. Cost and T. D. Loftin, Preprint No.1954, Apr 73
Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
  TR:138:486
Optimal Irrigation Quantity and Frequency, I-pai Wu and Tung Liang, IR1:Mar 72:117:8776
  TR:138:171
Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9:Sept 72:1527:9186
  TR:138:463
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
  TR:138:114
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1:Mar 72:91:8767
  TR:138:131

Soil Moisture Movement
Hydraulic Modeling of Flow in Porous Media, J. C. Guitjens, Preprint No.1886, Jan 73
Lime Slurry Pressure Injection Tames Expansive Clays, Paul J. Wright, CE:Oct 73:42
  Dsc: D. Earl Jones, Jr., CE:Dec 73:32
Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9:Sept 72:1527:9186
  TR:138:463

Soil Pressure
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, Preprint No.1949, Apr 73
Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, Fred C. Teitgen and David R. Fiedler, CE:Nov 73:82
New Design Method for Corrugated Steel Pipe, Alma P. Moser and Reynold K. Watkins, CE:June 72:61
  TR:138:291

Soil Properties
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
  TR:138:474
Effect of Environment on Rapid Transit Construction, George O. Kline, TE2:May 73:367:9751
Low Velocity Penetration of Kaolin Clay, James D. Murff and Harry M. Coyle, SM5:May 73:375:9737
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443:9212
  TR:138:502
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
Stress Propagation in a Frequency Dependent Material, Raymond N. Yong, Jean C. Dutertre and Raymond J. Krizek, Preprint No.2020, Apr 73
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM5:May 72:481:8917
  TR:138:302
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM6:June 72:557:8944
  TR:138:309
"Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM7:July 72:749:9070
  TR:138:403

Subsurface Investigations for Design and Construction of Foundations of Buildings: Appendices A and B, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM8:Aug 72:771:9103
TR:138:413
Very Large Graving Docks, Jay J. Hassani, Preprint No.1938, Apr 73

Soil Resistivity

Soil Resistance Predictions from Pile Dynamics, Frank Rausche, Fred Moses and George G. Goble, SM9:Sept 72:917:9220
TR:138:481

Soils

Expansive Soils -- the Hidden Disaster, D. Earl Jones, Jr. and Wesley G. Holtz, CE:Aug 73:49
Membrane Encapsulated Soil Layers, James P. Sale, Frazier Parker and Walter R. Barker, SM12:Dec 73:1077:10240
Seepage from Trenches Through Nonhomogeneous Soils, Ahmed El Nimur and Robert L. Street, IR1: Mar 72:13:8777
TR:138:185
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354

Soil Stability

Embankments on Soft Ground, Laurits Bjerrum, PES: 73:II-1
Embankments on Soft Ground -- Reporter's Summary, William H. Perloff, PES:73:III-49
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
TR:138:316

Soil Stabilization

Acceleration of Lime-Clay Reactions with Salt, B. Dan Marks and T. Allan Haliburton, SM4:Apr 72: 327:8827
TR:138:235
Compaction Grouting, Douglas R. Brown and James Warner, SM8:Aug 73:589:9908
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858
TR:138:107
Engineering Properties of Compacted Fly Ash, Donald H. Gray and Yen-Kuang Lin, SM4:Apr 72: 361:8840
TR:138:253
Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74
TR:138:303
Dsc, Soil Stabilization, Principles And Practices, Stanley J. Johnson, CE:July 73:30
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald York, CE:Aug 73:56

Soil Structure

Electrical Dispersion in Relation to Soil Structure, Kandiah Arulanandan and Scott S. Smith, SM12: Dec 73:1113:10235

Soil-Structure Interaction

Case Study of Dynamic Soil-Structure Interaction, Robert V. Whitman, John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175
Designing for Seismic Soil-Structure Interaction, Richard A. Parmelee, Preprint No.1985, Apr 73
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES: 73:III-251
Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, H. Bolton Seed, TB:73:Ib-6-177
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999
Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026
TR:138:338
Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310
Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, Preprint No.1949, Apr 73
Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399
TR:138:15
Earthquake Forces on Equipment in Nuclear Power Plants, Asadour H. Hadjian, PO3:July 71:649:8240
TR:137:989
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
TR:138:416
Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
TR:138:347
Elastic-Plastic, Large Deformation Response of Soil to Footing Loads, Hugh L. Davidson and Wai F. Chen, Preprint No.2070, Oct 73
Finite Element Analyses of Retaining Wall Behavior, Gerald W. Clough and James M. Duncan, SM12: Dec 71:1657:8583
TR:138:95
Foundation Design for Steel Mill Building, Robert I. Young, CO1:July 73:35:9834
Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026
Foundation Problems for Large Earthquakes, James D. Roberts and William F. Jones, Preprint No.1943, Apr 73
Interaction of Soil and Power Plants in Earthquakes, Jeremy Isenberg and Samy A. Adham, PO2:Oct 72: 273:9242
TR:138:419
Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Non-Synchronous Ground Motion, Horea Sandi, TB: 73:Ib-6-325
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259
Predicting Performance of Braced Excavations, T. William Lambe, PES:73:III-255
Site Response Procedures for Major Buildings, Neville C. Donovan, Preprint No.2027, Apr 73
Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145
Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990
Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008
Soil-Structure Interaction -- Opening Remarks, Ralph B. Peck, PES:73:III-249
Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247
Soil-Structure Systems, Akbar R. Tamboli, TB:73:Ib-6-318
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
TR:138:554
Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES: 73:III-265
Vibrations of Embedded Footings and Structures, Milos Novak, Preprint No.2029, Apr 73

Soil Tests
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219

Soil Texture
Estimating Soil Permeability Rates, Merlin E. Horn, IR2:June 71:263:8169
TR:137:978

Soil Treatment
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724

Solar Energy
Alternatives to the Heating and Evaporation of Groundwater While Still Satisfying the U.S. Energy Appetite, William E. Heronemus, Preprint No.1909, Jan 73
Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

Solar Energy Concentrators
Solar Heating and Cooling: Untapped Energy Put to Use, George O.G. Lof and Dan S. Ward, CE:Sept 73:88

Solar Radiation
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279
Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
TR:137:1024
Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131

Solids
Torsion of Nonhomogeneous Solid, Manoon Chuaprasert and Mumtaz K. Kassir, EM4:Aug 73:703:9948

Solid Wastes
Basic Data for Solid Waste: A Pilot Study, Robert M. Clark, John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
TR:138:540
Bottom Ash: An Engineering Material, Roger K. Seals, Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
TR:138:224
City of St. Louis-Union Electric Company Process Solid Waste as a Boiler Fuel, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, Preprint No.2114, Oct 73
Consolidation of Papermill Sludges, Orlando B. Andersland and P. John Mathew, SM5:May 73:365:9713
Cost-Effectiveness Analysis of Disposal Systems, Michael L. Popovich, Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104
Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
TR:138:34
Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE:Oct 72:72
TR:138:468
The Engineer and the New Environment, Eugene T. Jensen, PP3:July 72:303:9032
TR:138:381
Environmental Aspects of Fossil Fuel Power Plant Solid Waste Disposal, Anthony M. Di Gioia, James E. Niece and Robert P. Hayden, Preprint No.2116, Oct 73
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
Dsc: Raphael G. Kazmann, CE:Dec 73:22
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
TR:138:528
Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72:71:8720
TR:138:216
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE:Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
TR:138:434
Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234
TR:138:454
Interdisciplinary Planning to Meet Environmental Needs, Frederick J. Clarke, PP4:Oct 72:497:9262
TR:138:535
Leachate Treatment By Coagulation and Precipitation, Richard J. Thornton and Frederick C. Blanc, EE4:Aug 73:535:9946
Management Science and Gaming in Waste Management, Pran N. Wahi and Theodore I. Peterson, SA5:Oct 72:693:9253
TR:138:476
Measures of Efficiency in Solid Waste Collection, Robert M. Clark, EE4:Aug 73:447:9916
Recycling Wastes for Structural Application, Seymour A. Bortz and Murray A. Schwartz, EM2:Apr 73:249:9648
Refuse Reclamation and Recycle, Joseph F. Malina, Jr. and William T. Morgan, SA6:Dec 72:819:9437
TR:138:564
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214
Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2:Apr 72:299:8833
TR:138:321
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
TR:138:4
St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
TR:138:518
Water and Sewage Sludge Absorption by Solid Waste, Ralph Stone and Richard L. Kahle, SA5:Oct 72:731:9250
TR:138:467

Sonar Equipment
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY12:Dec 70:2417:7781
TR:137:852

Sorption
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430
TR:138:546

Sound
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079

Sound Level Meters
Surveying Safety, John M. Shields and Jack J. Wilks, SU1:July 72:67:9057
TR:138:364

South Africa
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87

South America

Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135

Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423

Research Review -- North and South America, State-of-Art Report 3, W. A. Dalgliesh and R. D. Marshall, TB:73:Ib-7-383

South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57

South Carolina

Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
TR:138:346

South Dakota

Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451

Rapid Creek Watershed, Donald A. Thorson, HYB: Aug 73:449

Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703

The South Dakota Weather Modification Program, Merlin C. Williams, Preprint No.1883, Jan 73

Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9: Sept 72:1515:9187
TR:138:466

Space Frames

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
TR:138:589

Tangent Stiffness in Space Frames, Cenap Oran, ST6: June 73:987:9813

Space Reconnaissance

Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
TR:138:604

Space Structures

Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615

Spacing

Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687:9428
TR:138:584

Spain

Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484

Spans

200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306

Spatial Distribution

Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1: Jan 72:1:8627
TR:138:84

Specifications

An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB: 73:Ia-4-797

Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7

Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327

Contractual Pitfalls, Al Wasserman, EPMT:73:37

Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87

Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-Europian Countries, State-of-Art Report 3, Frantisek Faltus and Pavel J. Marek, TB: 73:II-13-37

Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23

Dsc, Driller Pier Foundations, Joseph M. DeSalvo, CE:Mar 73:40

Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

General Review of Standards for Steel Buildings in India, State-of-Art Report 6, B. S. Krishnamachar, TB:73:II-13-103

Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301:9594

Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71

The Role of Contract and Specifications in Foundations, Max E. Greenberg, Preprint No.2074, Oct 73

The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73

Specifications for Computer Software, Robert K. Waddick and Charles F. Beck, Preprint No.2022, Apr 73

Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68

Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51

Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1

Suggested Design Guides for Beams with Web Holes, by the Subcommittee on Beams with Web Openings of the Task Committee on Flexural Members of the Structural Division, John E. Bower, Chmn., ST11: Nov 71:2707:8536
TR:138:30

Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717

Specific Gravity

The Nature of Lunar Soil, W. David Carrier, III, James K. Mitchell and Arshud Mahmood, SM10: Oct 73:813:10099

Spectra

Seismic Design and Analysis of Nuclear Plant Components, Milomir Stoykovich, SDNPF:Dec 73: 1

Seismic Design Spectra for Nuclear Power Plants, Nathan M. Newmark, John A. Blume and Kanwar K. Kapur, PO2:Nov 73:287:10142

Spectral Energy Distribution

Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425:8822
TR:138:211

Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4: Nov 72:443:9318
TR:138:512

Spheres

Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809

Spherical Shells

Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3: June 72:731:8998
TR:138:337

Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5: Oct 72:1115:9247
TR:138:471

Symmetric Buckling of Inelastic Spherical Shells, Robert K. Emerton and Nicholas F. Morris, EM6: Dec 72:1417:9446
TR:138:586

Spillway Capacity
Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division, Russell W. Revell, Chmn., HY2:Feb 73: 337:9571
Upstream Drainage Increases Spillway Stability, Charles D. Craddock, Preprint No.1902, Jan 73

Spillways
Air Flow in Combined Intake and Shaft Spillway, Alan F. Babb, Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center and Thomas J. Rhone, Preprint No.1899, Jan 73
Emergency Redesign of Silver Jack Spillway, Gustavus W. Center, PO2:Nov 73:265:10151
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
TR:138:163
Landslide at Silver Jack Dam, Malcolm H. Logan and Fred J. Davis, PES:73:III-315
Lavon Dam Modification, Garland E. Young, Preprint No.1923, Apr 73
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
TR:138:146
Upstream Drainage Increases Spillway Stability, Charles D. Craddock, Preprint No.1902, Jan 73

Spinal Cord
Static Force Analysis of the Human Spine, Ted Belytschko, A. B. Schultz and T. P. Andriacchi, Preprint No.2053, July 73

Spirals
Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108

Spraying
Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000

Sprinkler Irrigation
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
TR:138:331
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673

Sprinklers
Disposal of Domestic Wastewater by Hillside Sprays, Endel Sepp, EE2:Apr 73:109:9673
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB: 73:Ib-8-523
Solutions for Lateral Outflow in Perforated Conduits, Jean Berlamont and Andre Van der Beken, HY9: Sept 73:1531:10004

Sprinkler Systems
Dsc, Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, Richard W. Bletzacker, CE:June 73:34
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681

Stability
Accuracy Equilibrium Slope Stability Analyses, Stephen G. Wright and Fred H. Kulhawy, SM10: Oct 73:783:10097
Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233: 8643
TR:138:109
Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480
Analysis of Waco Dam Slide, Stephen G. Wright and James M. Duncan, SM9:Sept 72:869:9210
TR:138:472
Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
TR:138:161
Asymmetrical Buckling of Imperfect Spherical Shells, George N. Freskakis and Nicholas F. Morris, EM5: Oct 72:1115:9247
TR:138:471
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441
TR:138:569
Bearing Capacity Determination by Limit Analysis, Wai F. Chen and Hugh L. Davidson, SM6:June 73: 433:9816
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010
TR:138:306
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555
Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608
"Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
TR:138:365
Boundary Effects on Stability of Structures, A. S. Chawla, HY9:Sept 72:1557:9199
TR:138:481
Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581
Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339
TR:138:536
Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903
Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415
Column Supported by Side-Beams, Tsai-Chen Soong, EM6:Dec 73:1217:10238
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
The Computer in Structural Stability Analysis, Bo O. Almroth and James H. Starnes, Jr., Preprint No.1936, Apr 73
Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585
Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968
TR:138:286
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936
Dynamic Stability of Thin-Walled Column, Carl H. Popelar, EM3:June 72:657:8978
TR:138:304
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621

Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1: Feb 73:85:9548
Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914
Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720
Elastic-Plastic Instability of Multi-Story Frames, Sriralumu Vinnakota, TB:73:II-16-568
Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72: 713:8775
TR:138:165
Elasto-Plastic Behavior of Encased Structures, Minoru Wakabayashi, Takeo Naka and Ben Kato, TB:73:II-16-525
Ellet's Contribution to the Development of Suspension Bridges, Emory L. Kemp, PP3:July 73: 331:9872
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12: Dec 72:2647:9407
TR:138:568
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
Inelastic Lateral Buckling of Restrained Beams, Hiroshi Yoshida and Yoshihiro Imoto, EM2:Apr 73:343:9666
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
TR:138:316
Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
TR:138:589
Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949
Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439: 10232
Load Factor (Limit States) Design, Theme Report, Juan Batanero, TB:73:II-19-825
Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
TR:138:504
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011: 10064
Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7: July 73:1702:9828
Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73: 485:10179
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Polynomial Stiffness Coefficients, Jacob Gluck, TB: 73:II-16-593
Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630
TR:138:67
Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603: 9191
TR:138:470
Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128
Seismic Stability and Deformation of Clay Slopes, Ignacio Arango and H. Bolton Seed, Preprint No.1979, Apr 73
Shallow Circular Vaults, James F. Dickie and Peter Broughton, EM1:Feb 73:1:9520
Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598
Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020
TR:138:326
Simultaneous Buckling in Symmetric Structural Systems, Kenneth C. Johns, EM4:Aug 72:835:9106
TR:138:369
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913: 8253
TR:137:976
Stability of Framed Struct , Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429: 9641
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
Stability of Hyperboloidal Shells, Daniel R. Veronda and Victor I. Weingarten, Preprint No.2112, Oct 73
Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1: Jan 72:269:8646
TR:138:122
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Stability of Orthotropic Stiffened Composite Plates, Kao Ding Chiu, EM5:Oct 72:1253:9266
TR:138:508
Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, Alexander Popoff, Jr., TB:73: III-23-571
Stability of Rockfill in End-Dump River Closures, Bishnu Prasad Das, HY11:Nov 72:1947:9381
TR:138:567
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
Stability of Unbraced Single-Bay Multistory Frames, Abel Helmy Salem, ST2:Feb 73:223:9552
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Stability, Summary Report, Boris Bresler, TB:73:III-23-631
Stability, Theme Report, George Winter, TB:73:II-16-409
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593: 8143
TR:137:943

Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Structural Failures, Jack R. Janney, STF:73:11
Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
Substation Over Old Mine Gets Firm Footing, James A. Collins, CE:Dec 73:41
Sway in Structures, Maxwell G. Lay, TB:73:II-16-590
Theories of Closure of Rockfill Dams, John A. Sandover, CO2:Nov 71:313:8542
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
  TR:138:78

Stability Analysis
Residual Strength and Landslides in Clay and Shale, Herbert L Noble, SM9:Sept 73:705:10023

Stability Criteria
In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72:899:9202
  TR:138:464

Stabilization
Disinfection of Algal Laden Waters, Wayne F. Echelberger, Jr., Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
  TR:138:91
Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74
  TR:138:303

Stadiums
Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
  Dsc: Joseph R. Passonneau, CE:Sept 72:61
  TR:138:319

Stains
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773

Standard Deviation
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
  TR:138:550

Standards
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
  TR:138:433
Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division, G. Andrew Reti, Chmn., SM3:Mar 73:249:9614
Engineering Innovations for Davis-Besse Containment, Howard W. Wahl, PO1:May 73:125:9697
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Impact on Industries of Air Pollution Control Legislation -- A Panel Discussion, David M. Anderson, Preprint No.2109, Oct 73
Implications of the New ACI Building Code, Edward Cohen, CE:Aug 72:47
  TR:138:365
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125
A Kinematic Sound Screen: A Cost-Effective Solution to Highway Noise Abatement, John B. Hauskins, Jr., Preprint No.1961, Apr 73
Limit States of Composite Structures, Duiliu Sfintesco, TB:73:II-19-895
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
  TR:138:523
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121
Safety Performance Standards for Highway Service, Peter G. Koltnow, Preprint No.1982, Apr 73
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, Nilo Andrade Amaral, TB:73:III-20-57
Specifying Structural Concrete for Buildings, Sidney Freedman, CE:Nov 73:68
Standards for Steel Construction in the United States, State-of-Art Report 1, William A. Milek, Jr., TB:73:II-13-13
Standards in Great Britain, State-of-Art Report 4A, Charles S. Gray and Leslie V. Leech, TB:73:II-13-51
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
  TR:138:46
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87
Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27

Standing Waves
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318
  TR:138:512

Startup Costs
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, Preprint No.1999, Apr 73

State Governments
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
  TR:138:244

Statically Determinate Structures
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195
  TR:138:447

Statically Indeterminate Structures
Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902

Static Loads

Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59

Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19

Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85

Statics

Statics of Random Beams, Devendra K. Shukla and Robert M. Stark, EM6:Dec 72:1487:9449
TR:138:600

Static Stability

Static and Dynamic Stability of an Imperfect Beam, Jorn S. Hansen and John Roorda, EM2:Apr 73:271:9647

Static Structural Analysis

Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085

Linear Theory of Thin Rings, Harry E. Williams, EM5:Oct 72:1031:9232
TR:138:436

Rapid Design of Tapered Rigid Frames, Duane S. Ellifritt, CE:July 72:45
TR:138:323

Static Tests

Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213

Statistical Analysis

Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
TR:138:330

Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
TR:138:313

Bias in Computed Flood Risk, Clayton H. Hardison and Marshall E. Jennings, HY3:Mar 72:415:8766
TR:138:188

Competitive Bidding: The Probability of Winning, Neal B.H. Benjamin, CO2:Sept 72:313:9218
TR:138:601

Cost of Residential Solid Waste Collection, Robert M. Clark, Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
TR:138:34

Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556

Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780

Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
TR:138:399

Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545

First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816
TR:138:205

Floods Predicted From Rainfall Frequencies, Lee Robinson and Theodore T. Williams, HY10:Oct 72:1773:9294
TR:138:517

Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597

Improving Manual Solid Waste Separation Studies, Paul W. Britton, SA5:Oct 72:717:9234
TR:138:454

Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615

Lagrangian Characteristics of Surface Turbulence, Eggert Hansen, HY7:July 72:1255:9008
TR:138:346

Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
TR:138:478

Maximum Potential Evapotranspiration Frequency - East Central U.S., J. L. McGuinness and Leslie H. Parmele, IR2:June 72:207:8943
TR:138:267

Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3:June 72:561:8958
TR:138:273

Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

New Approach to Power Plant Siting, James D. Calvert and William L. Heilman, PO1:June 72:93:8981
TR:138:201

Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, L. T. Fan and L. E. Erickson, EE3:June 73:315:9798

Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501

Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119
TR:138:426

Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123

Predicting Sediment Yield in Western United States, Elliott M. Flaxman, HY12:Dec 72:2073:9432
TR:138:585

Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034

Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, Francis J. Principe, TB:73:Ib-9-807

Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73:771:9733

Reliability Bases of Structural Safety and Design, Alfredo H.-S. Ang and C. Allin Cornell, Preprint No.2023, Apr 73

Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6:Dec 71:1625:8584
TR:138:38

Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
TR:138:229

Simulating Effects of Weather on Construction, Neal B.H. Benjamin and Theodore W. Greenwald, CO1:July 73:175:9888

Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123
TR:138:384

Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
TR:138:547

Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
TR:138:544

Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72:1205:9289
TR:138:532

Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209

Stochastic Analysis of Dune Bed Profiles, Baum K. Lee and Harvey E. Jobson, Preprint No.2106, Oct 73

Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
TR:138:336

Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907

Unit Stream Power and Sediment Transport, Chih Ted Yang, HY10:Oct 72:1805:9295
TR:138:519

Unity of Stochastic and Deterministic Models in Hydrology, Rafael G. Quimpo, Preprint No.1897, Jan 73
Use of Digital Radar Data in Operational Hydrology, Michael D. Hudlow, Preprint No.1911, Jan 73
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Statistical Data
Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861

Statistical Dispersion
Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3: June 72:561:8958
TR:138:273

Statistical Distributions
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
TR:138:547

Statistical Tests
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332

Steady Flow
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
TR:138:173
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733

Steel
Comments on "Brittle Fracture of Steel Pipelines Analyzed", CE:Feb 73:48
Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937
TR:138:288
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70

Steel Beams
Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059
Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790
Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817

Steel Construction
Analysis and Design of Sacrificial Shield Wall, V. K. Datta, SDNPF:Dec 73:291
Composite Steel-Concrete Building Frame, Don Belford, CE:July 72:61
TR:138:334
Factor of Safety of Connections, R. Delesques, TB: 73:II-19-890
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Prestressed Composite Steel Beam Design, Subhash C. Anand and Ahmed Talesstchi, ST3:Mar 73:301: 9594
Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Standards for Steel Construction in the United States, State-of-Art Report 1, William A. Milek, Jr., TB:73: II-13-13

Steel Detailing
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767

Steel Frames
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268
Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767

Steel Industries
Impact on Industries of Air Pollution Control Legislation -- A Panel Discussion, David M. Anderson, Preprint No.2109, Oct 73

Steel Pipes
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Dsc: James F. Sato, CE:Sept 72:57
TR:138:345
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
TR:138:462
Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73: 521:9907
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Steels
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
TR:138:509
Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500
Economical Design of Prestressed Plate Girder, Miloslav Tochacek and Champa L. Mehta, ST6: June 72:1273:8973
TR:138:298
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Fatigue and Fracture of Bridge Steels, Richard Roberts and George Irwin, Preprint No.1990, Apr 73
Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
TR:138:205
Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12: Dec 72:2647:9407
TR:138:568

Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757
High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
TR:138:576
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Lamellar Tearing of Welded Steel, CE:Dec 73:34
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and H. Akiyama, TB:73:II-17-619
Limits of Usefulness, State-of-Art Report 2, Lars Ostlund, TB:73:II-19-841
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501
Plastic Analysis and Design, Theme Report, Charles Massonnet, TB:73:II-15-255
Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72:1769:9148
TR:138:409
Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
Steel Box Girder Makes Handsome Bridge, Jack P. Shedd, CE:May 73:67
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
TR:138:368
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Steel Structures

Applications, State-of-Art Report 5, Pavel J. Marek, TB:73:II-19-869
Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72:1069:8911
TR:138:258
Autostress Design of Steel Structures, Geerhard Haaijer, Preprint No.1930, Apr 73
Dsc, Cold Formed Steel Structures, Donovan S. Wolford, CE:Nov 73:28
Columns Design in Buildings, State-of-Art Report 1, J. Brozzetti and J. Fourcriat, TB:73:II-16-415
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63
Design Concepts for Prestressed Steel Structures, Miloslav Tochacek, TB:73:II-19-883
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73
Factor of Safety of Connections, R. Delesques, TB:73:II-19-890
The Gap Between Intent and Performance -- Why Shortchange the Client?, Anton Tedesko, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26
High Rise Construction in France, State-of-Art Report 4B, Jean A. Roret, TB:73:Ia-4-741
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898
International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
One Shell Square, Skidmore, Owings & Merrill, TB:73:C-P-490
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688
Seismic Behavior of Multistory Braced Steel Frames, Subhash C. Goel and Robert D. Hanson, Preprint No.1951, Apr 73
Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641
TR:138:106
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Some Esthetic Considerations in Steel Design, Thomas C. Kavanagh, Preprint No.2115, Oct 73
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Steel Beam-To-Column Moment Connections, Joseph S. Huang and Wai F. Chen, Preprint No.1920, Apr 73
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Thyssenhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-448
Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301
Tour Apogee, Skidmore, Owings & Merrill, TB:73:C-P-486
Union Bank, Welton Becket and Associates, TB:73:C-P-326
Valley Center, Welton Becket and Associates, TB:73:C-P-318
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73:C-P-282

Stereographic Projection

Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T Bartlett, SU1:Sept 73:121:10028

Stereomapping

Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T Bartlett, SU1:Sept 73:121:10028

Stiffening

Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828

Stiffness

Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
Composite Columns -- Present Standards of the ACI Building Code, Richard W. Furlong, TB:73:III-23-603
Concrete Floor Systems, State-of-Art Report 6, Joseph P. Colaco, TB:73:III-21-237
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
Cracking and Control, Neil Jackson, TB:73:III-24-723
Cracking and Crack Control, Karl Kordina, TB:73:III-24-721

Cracking and Crack Control, State-of-Art Report 1, Peter Gergely, TB:73:III-24-645
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, Elio Giangreco, TB:73:II-13-23
Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862
Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, Kurt H. Gerstle, TB:73:III-22-353
Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724
Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217
General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776
General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732
TR:138:150
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383
Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and H. Akiyama, TB:73:II-17-619
Mechanical Interpretations for Invariant Imbedding, Paul Nelson, Jr., EM5:Oct 73:957:10094
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653
Polynomial Stiffness Coefficients, Jacob Gluck, TB:73:II-16-593
Rapid Reduction of Banded Stiffness Matrices, Frederic W. Williams, TN: ST5:May 73:967:9704
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Shear-Flexible Orthotropic Plates Loaded in Plane, Charles W. Bert and Shyming Chang, EM6:Dec 72:1499:9450
TR:138:602
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
TR:138:128
A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61
Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145
Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247
Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564
Stiffening Effect of Light Cladding, State-of-Art Report 4A, E. R. Bryan and J. M. Davies, TB:73:II-17-643
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
TR:138:566
Stiffness Related to Nonstructural Elements, Frank Newby, TB:73:Ia-12-1141
Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Strongly Curved Finite Element for Shell Analysis, John W. Leonard and Chin-Tsang Li, EM3:June 73:515:9805
Tangent Stiffness in Plane Frames, Cenap Oran, ST6:June 73:973:9810
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB:73:III-25-793
Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683

Stiffness Matrix
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
TR:138:75
Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036
TR:138:349
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
TR:138:333

Stiffness Methods
Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715
Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71:2459:8434
TR:138:20
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7:July 72:1377:9013
TR:138:315
Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
TR:138:185
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
TR:138:158
Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10:Oct 73:2011:10091
Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72:249:8645
TR:138:117
Stiffness-Analysis of Cable-Stayed Bridges, Benjamin E. Lazar, ST7:July 72:1605:9036
TR:138:349

Stilling Basins
Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7:July 72:1127:9007
TR:138:341
Efficiency of Hydraulic Jump, Satya P. Garg and Hari R. Sharma, HY3:Mar 71:409:7994
TR:137:934

Emergency Redesign of Silver Jack Spillway, Gustavus W. Center and Thomas J. Rhone, Preprint No.1899, Jan 73
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794
Modified USBR Impact Basin, Clifford D. Smith and Elias M. Korolischuk, TN: HY1:Jan 73:153:9463
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
  TR:138:428

Stochastic Models
Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387:9128
  TR:138:430
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72:1343:9119
  TR:138:426
Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35

Stochastic Processes
Analysis of Floating Plate Under Ocean Waves, Yi-Kwei Wen and Masanobu Shinozuka, WW2:May 72:177:8889
  TR:138:317
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755
First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816
  TR:138:205
Link Between Stochastic and Parametric Hydrology, Rafael G. Quimpo, HY3:Mar 73:461:9602
Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002
Probabilistic Short-Term River Yield Forecasts, Stephen J. Burges and Allen E. Johnson, IR2:June 73:143:9785
Some Problems with Log-Normal Markov Runoff Models, Stephen J. Burges, HY9:Sept 72:1487:9169
  TR:138:443
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
  TR:138:488
Unity of Stochastic and Deterministic Models in Hydrology, Rafael G. Quimpo, Preprint No.1897, Jan 73

Stock Ponds
Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353:9982

Stokes Law
Accelerated Motion of a Spheroid in Viscous Fluid, Robert Y.S. Lai, HY6:June 73:939:9809

Storm Drains
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
  TR:138:362
Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, Eugene Allen Gulliver, CE:Dec 73:49
Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642
  TR:138:102

Storm Runoff
Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
  Dsc: William J. Bauer, CE:Aug 72:46; Sam G. Baladi, CE:Oct 72:66
  TR:138:118
Flood Channel Doubles as Golf Course, Clifford C. Hood, CE:May 72:49
  Dsc: Nirmalendu Maitra, CE:Sept 72:61
  TR:138:238
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73:519:10188
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
Storm Water Runoff, Chester J. Ordon, Preprint No.2032, July 73
Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375:10013

Storms
Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73:519:10188
Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1:Mar 73:27:9608
Meteorology and Hydrology of Rapid City Flood, Keith A. Johnson, HYB:Aug 73:451
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9:Sept 73:1653:10024
Synthetic Storm Pattern and Run-off for Gauhati, India, M. Bandyopadnyay, HY5:May 72:845:8887
  TR:138:270
Water Management by Shallow Drainage, Royal H. Brooks and John C. Nibler, Preprint No.1868, Jan 73
Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
  TR:138:417

Storm Sewers
Storm Water Runoff, Chester J. Ordon, Preprint No.2032, July 73

Storm Water
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Computer Simulation of Storm Water Runoff, Franklin F. Offner, HY12:Dec 73:2185:10216
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177:9794
Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642
  TR:138:102
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
  TR:138:428

Strain
Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1:9496
The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753
Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311

Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225

Strain Energy

Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121

Strain Gages

Constructional Deformations in Rockfill Dam, Arthur Penman and Andrew Charles, SM2:Feb 73:139:9560

Strain Hardening

Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339
TR:138:536
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641
TR:138:106
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Strain Measurement

Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73:299

Strain Rate

Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
TR:138:51
Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719

Strains

Anchor Behavior in Sand, Thomas H. Hanna, Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
TR:138:521
Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
TR:138:427
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363
TR:138:541
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, Minoru Yamada, TB:73:II-18-725,
Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
TR:138:141
Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231
Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631
TR:138:70
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093

Strands

Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
TR:138:58

Stratification

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Elastic Theory Applied to Reinforced Earth, W. Jill Harrison and Charles M. Gerrard, SM12:Dec 72:1325:9417
TR:138:575
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Environmental Impact and Hydraulic Structures -- Current and Predicted, Danny L. King, Glenn R. Drummond and David W. McDougall, Preprint No.1913, Jan 73
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527
A Field Laboratory for Stratified Flow Studies, P. C. Chang and A. Lin, ISSF:Aug 72:501
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72:589
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241
TR:138:392
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
TR:138:600
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627

Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF: Aug 72:595
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF: Aug 72:261
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72: 237
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283

Stratified Flow

About Formulation of the Problems on the Dynamics of the Ocean, G. I. Marchuk, ISSF:Aug 72:69
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73: 1401:10018
Boundary Contractions as Controls in Two-Layer Flows, Subhash C. Mehrotra, HY11:Nov 73:2003: 10160
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, Kingsley G. Williams and Thomas H. Bell, ISSF:Aug 72:699
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72: 161
Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
TR:138:124
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
A Field Laboratory for Stratified Flow Studies, P. C. Chang and A. Lin, ISSF:Aug 72:501
Flow of Layered Fluid Over Broad Crested Weir, Ian R. Wood and K. K. Lai, HY1:Jan 72:87:8649
TR:138:108
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72: 589
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydrodynamic Pressures in Stratified Reservoir, Gunaratnam Balachandran, Tharakkal Eroman Unny and David S. Weaver, TN: EM4:Aug 73:912: 9898
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Interfacial Wave Breaking in Stratified Liquids, Ralph R. Rumer, Jr., HY3:Mar 73:509:9633
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, I. L. Rozovsky, A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649
Jets and Plumes Issuing Into Stratified Fluid, Gerrit Abraham, ISSF:Aug 72:3
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
Modeling of Heated-Water Discharges into River, Wojciech Majewski, ISSF:Aug 72:385
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Model Versus Field Data on Thermal Plumes from Power Stations, L. C. Neale and George E. Hecker, ISSF:Aug 72:399
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
One Dimensional Lunar Ash Flow With and Without Heat Transfer, Shi-I Pai and Tsuying Hsieh, ISSF: Aug 72:641
On the Generation of the Ocean Internal Waves, A. I. Leonov and J. Z. Miropolsky, ISSP:Aug 72:535
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, A. M. Mukhamedov, N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF: Aug 72:595
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451

A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, V. I. Klimok, V. P. Kochergin and A. S. Sarkisian, ISSF: Aug 72:261
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581
Towards a Design System for Stratified Flows, Michael B. Abbott and John P. Grubert, ISSF:Aug 72:113
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF: Aug 72:251
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283

Stream Flow
Adequacy of Hydrologic Records for Parameter Estimation, Charles T. Haan, HY8:Aug 72:1387: 9128
TR:138:430
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
TR:138:37
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72: 433:9219
TR:138:539
Log-Normal Streamflow Generation Model Reexamined, Gary P. Codner and Thomas A. McMahon, HY9:Sept 73:1421:10002
Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192
Parameter Estimation for First-Order Autoregressive Model, Luis E. Garcia-Martinez, HY8:Aug 72: 1343:9119
TR:138:426
Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB: Aug 73:21
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8: Aug 72:1427:9105
TR:138:412

Stream Gages
Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856

Stream Improvement
Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Stream Pollution
Effects of Dispersion on DO-sag in Uniform Flow, Wen-Hsiung Li, SA1:Feb 72:169:8743
TR:138:251
Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
TR:138:326

Streams
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71: 321:8545
TR:138:149
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455
Discharge, Slope, Bed Element Relations in Streams, J. K. Virmani, Dean F. Peterson and Gary Z. Watters, HYB:Aug 73:73
Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
TR:138:478
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, F. K. Browand and Y. H. Wany, ISSF:Aug 72:493
Laboratory Study of Transport of Fine Sand, Joe C. Willis, Neil L. Coleman and Wilbert M. Ellis, HY3: Mar 72:489:8765
TR:138:183
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371
Physical and Biological Rehabilitation of a Stream, Robert J. Luedtke, Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Sampling Procedures for Coarse Fluvial Sediments, Rolf Kellerhals and Dale I. Bray, HY8:Aug 71: 1165:8279
TR:137:1023
Sediment Discharge Computation Procedures, Nick Tywoniuk, HY3:Mar 72:521:8783
TR:138:213
Subcritical Kinematic Flow in a Stable Stream, William J. Gburek and Donald E. Overton, HY9: Sept 73:1433:10026
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
TR:138:136
Variable Respiration in Aquatic Plant Communities, Archie J. McDonnell and Dennis W. Weeter, SA2: Apr 72:325:8852
TR:138:348
Water Pollution - Facts and Fantasies, John M. Henderson, SA3:June 72:529:8966
TR:138:390

Street Railroads
Expressway Rapid Transit, George Krambles, TE4: Nov 72:1023:9388
TR:138:590

Streets
Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942

Strength
Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595
Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71: 2119:8327
TR:138:9
Constitutive Relations of Coal, Hon-Yim Ko and Kurt H. Gerstle, RM14:73:157
Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
TR:138:499
Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357

Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35
Limit State Philosophy, State-of-Art Report 1, Caterina Manuzio, TB:73:II-19-835
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
Strength Development of Concrete Exposed in Winter, Carl Berwanger and V. M. Malhotra, Preprint No.1956, Apr 73
Strength Factors for Composite Members, D. E. Allen, TB:73:III-26-940
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Strength Versus Energy Dissipation in Sandstone, Michael K. McCarter and John E. Willson, RM14:73:223
Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

Strength of Materials
Masonry Materials and Their Physical Properties, State-of-Art Report 2, Hubert K. Hilsdorf, TB:73:III-27-981

Strength Weight Ratio
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201

Stress
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225

Stress Analysis
An Approach to Analysis of Arch Dams in Wide Valleys, Janusz R. Rydzewski and Richard W. Humphries, PO1:May 73:165:9710
Approximate Stress Analysis for Guyed Towers, Stan H. Lowy, CE:Mar 72:80
TR:138:169
Contact Stresses in Twisted Wire Cables, James W. Phillips and George H. Costello, EM2:Apr 73:331:9676
Efficient Method for Solution of Viscoelastic Problems, Robert A. Adey and Carlos A. Brebbia, EM6:Dec 73:1119:10206
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64
Fracture Mechanics, With High-Strength Steels A Must, Stanley T. Rolfe, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089
Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189

Stress Concentration
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, Kiran M. Vashi, Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173

Stress Corrosion
Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866

Stress Distribution
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71:1675:8577
TR:137:958
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6:June 72:625:8999
TR:138:347
Influence of Progressive Failure On Slope Stabilities, Fredy Romani, C. William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
TR:138:530
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
TR:138:577
Stress Propagation in a Frequency Dependent Material, Raymond N. Yong, Jean C. Dutertre and Raymond J. Krizek, Preprint No.2020, Apr 73
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Stresses
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765
Behavior of a Curved Steel Box Beam Bridge, Robert A. Greig and William L. Armstrong, Preprint No.2017, Apr 73
Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
TR:138:427
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
TR:138:507
Boussinesq Problems for Nonhomogeneous Solid, Mumtaz K. Kassir, EM2:Apr 72:457:8847
TR:138:236
Buckling Stress States of Cylindrical Shells, Ihsan Mungan, Preprint No.1994, Apr 73
Circular Land Cofferdam for Deep Excavation, Mahmood M. Alizadeh, CO1:July 73:11:9840
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Contact Stresses in Twisted Wire Cables, James W. Phillips and George H. Costello, EM2:Apr 73:331:9676
Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363
TR:138:541
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Elastic Analysis of Single Seam Extraction, A. M. Starfield and S. L. Crouch, RM14:73:421
Elastic-Plastic Analysis by Quadratic Programming, Antone F. Sayegh and Moshe F. Rubinstein, EM6:Dec 72:1547:9435
TR:138:564
Finite Element Analysis of Strain-Softening Clay, Kaare Hoeg, SM1:Jan 72:43:8650
TR:138:141
Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
TR:138:461
Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773
High Order Rectangular Shallow Shell Finite Element, T. Y. Yang, EM1:Feb 73:157:9519
Indirect Structural Analysis by Finite Element Method, Houeh-chien Fu, ST1:Jan 73:91:9478
An Invariant Second Moment Reliability Format, Niels C. Lind, Preprint No.1921, Apr 73
Large Deflection of Rectangular Orthotropic Plates, Chuen-Yuan Chia, EM5:Oct 72:1285:9271
TR:138:514
Measurement of Instantaneous Boundary Shear Stress, Paul H. Blinco and Daryl B. Simons, HYB:Aug 73:43
Numerical Analysis of Thick Shells of Revolution, Frank G. Bercha and Peter G. Glockner, EM5:Oct 73:1053:10093

Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4: Aug 72:891:9091
TR:138:343
Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311
Sequoyah Ice Condenser Containment Structure, Jesse F. Allred and Robert O. Barnett, PO1:May 73:019:9695
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665
TR:138:128
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
TR:138:253
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Stresses in Circular Plates on Elastic Foundations, Richard Bolton, EM3:June 72:629:8972
TR:138:297
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302
Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698
TR:138:25
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Structural Model Studies of Large Pipe Bifurcation, William G. Godden, TE1:Feb 73:93:9549
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB: 73:III-25-793
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791
TR:138:189
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
TR:138:382
Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793
Vertical Stress Chart for Rigid Circular Foundations, Alfreds R. Jumikis, TN: SM12:Dec 73:1196:10189
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454
TR:138:598
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
TR:138:417

Stress Gages
The Deep Stress Probe -- A Tool for Stress Determination -- Abstract, J. C. Roegiers, RM14: 73:755

Stress Meters
Development of Deep Hole Stress Measurement Device, E. R. Hoskins and E. H. Oshier, RM14:73: 299

Stress Ratio
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863

Stress-Strain Curves
Analysis of Embankment Deformations, Daniel Resendiz and Miguel P. Romo, PES:72:I-817
Axial Stress-Strain Characteristics of Sand, Herbert Breth, Ernst Schuster and Prabhakar J. Pise, SM8: Aug 73:617:9919
Behavior of Concrete Under Biaxial Stresses, Helmut B. Kupfer and Kurt H. Gerstle, EM4:Aug 73:853: 9917
Consolidation at Constant Rate of Strain, Anwar E.Z. Wissa, John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
TR:138:51
Deformation and Fracture of Particulate Composite, Oral Buyukozturk and Arthur H. Nelson, EM3: June 72:581:8970
TR:138:292
Expansion of Cylindrical Probes in Cohesive Soils, Francois Baguelin, Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129: 9377
TR:138:553
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354
Stress-Strain Relationships for Particulate Materials at Equilibrium, Peter W. Rowe, PES:73:III-327

Stress Strain Diagrams
Invariant Multicouple Theory of Shells, Gerald A. Wempner, EM6:Dec 72:1397:9444
TR:138:577
Strain-Stress Relations and Failure of Anisotropic Clays, Adel S. Saada and Chin-Der Ou, SM12:Dec 73:1091:10225

Stress Waves
Influence of Loading Rate On Rock Response, Dale E. Stephenson and George E. Triandafilidis, Preprint No.2004, Apr 73

Strip Mines
Area Infrared Locates Solid Ground in Mined Area, Bob Beaver and Jack Wood, CE:Mar 73:62

Strip Mining
Chicago Reclaiming Strip Mines With Sewage Sludge, CE:Sept 72:98
Dsc: Carmen F. Guarino, CE:Mar 73:71; Martin Lang, CE:Mar 73:71
TR:138:427

Structural Analysis
Analysis of an 80-Foot Aircraft Shelter for Construction Stresses, J. P. Balsara and R. E. Walker, Preprint No.2019, Apr 73
Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB: 73:Ia-4-797
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
TR:138:551
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115
Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163
Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279
Autostress Design of Steel Structures, Geerhard Haaijer, Preprint No.1930, Apr 73
Badly Needed: Changes in Building Codes for Houses, Melvin W. Jackson, CE:Apr 72:55
Dsc: Christopher G. Tyson, CE:Sept 72:65
TR:138:190
Beam-Column Design, Maxwell G. Lay, TB:73:II-15-382

Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
TR:138:451
Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013
TR:138:315
Closing Remarks at Tall Buildings Conference, Le-Wu Lu, TB:73:C-511
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB: 73:III-21-265
The Computer in Structural Stability Analysis, Bo O. Almroth and James H. Starnes, Jr., Preprint No.1936, Apr 73
Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271
Convergence of Semianalytical Solution of Plates, Gamil S. Tadros and Amin Ghali, EM5:Oct 73: 1023:10054
Cosserat Surface and Sandwich Shell Equilibrium, David J. Malcolm and Peter G. Glockner, EM5: Oct 72:1075:9240
TR:138:453
Dead Load Design Of Curved Bridges, Conrad P. Heins, Jr. and E. L. Murphy, Preprint No.1924, Apr 73
Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, Thomas M. Chura, CE:Feb 72:75
TR:138:114
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127
Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936
Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715
Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73
Double Overlap Beam, Oliver A. Baer, ST11:Nov 72: 2541:9345
TR:138:542
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151
Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621
Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325
Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892
Elastic-Plastic Instability of Multi-Story Frames, Sriralumu Vinnakota, TB:73:II-16-568
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153
Expected Fatigue Damage of Seismic Structures, Jhy-Pyng Tang and James T.P. Yao, EM3:June 72:695: 8986
TR:138:317
Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038
Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127
Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724
Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365
Guidelines for Selecting a Programmable Calculator, Eugene E. Dallaire, CE:Mar 72:46
TR:138:129
Half Frame Method, Bernardo J. Deschapelles, TB: 73:II-16-591
High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086
Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149
An Invariant Second Moment Reliability Format, Niels C. Lind, Preprint No.1921, Apr 73
Load Factor (Limit States) Design, Summary Report, W. C. Hansell and Ivan M. Viest, TB:73:II-19-899
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894
Methods of Analysis, Bernardo J. Deschapelles, TB: 73:III-21-309
Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473
Optimization, Akbar R. Tamboli, TB:73:II-14-239
Optimization of Structures, N. Khachaturian, TB:73: II-14-233
Orthotropic Bridge Floor Beam Design, Conrad P. Heins, Jr. and Peter G. Perry, Preprint No.1925, Apr 73
Polynomial Stiffness Coefficients, Jacob Gluck, TB: 73:II-16-593
Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185
Probabilistic Methods, Jack R. Benjamin, TB:73:Ib-10-1013
Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Rapid Design of Tapered Rigid Frames, Duane S. Ellifritt, CE:July 72:45
TR:138:323
Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460
Response of Tall Buildings to Wind Loading, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, Preprint No.1939, Apr 73
Responsibilities of Computer-Aided Design, Charles F. Beck, CE:June 72:58
TR:138:288
Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143
Serviceability, Emil Grasser, TB:73:III-22-465
Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049
Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
TR:138:333
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295: 9545
Stiffness Related to Nonstructural Elements, Frank Newby, TB:73:Ia-12-1141
Structural Design for Bounds on Dynamic Response, J. M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Structural Failures, Jack R. Janney, STF:73:11
Structural Failures from the Human Side, Raymond C. Reese, STF:73:103
Structural Modeling and Analysis of Containment Internal Structures, Lazar I. Skundric, SDNPF:Dec 73:343

Structural Systems for Very Tall Buildings, Hannskarl Bandel, TB:73:Ia-3-627
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
Structural Systems, Summary Report -- Part II, Friedrich K. Reinitzhuber, TB:73:Ia-3-651
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099
Sway in Structures, Maxwell G. Lay, TB:73:II-16-590
Systematic Stress Analysis of Circular Pipe, Junkichi Katoh, TE4:Nov 72:1039:9386
  TR:138:584
Tall Buildings, Conference Summary, Duiliu Sfintesco, TB:73:C-505
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Tangent Stiffness in Plane Frames, Cenap Oran, ST6: June 73:973:9810
Tangent Stiffness in Space Frames, Cenap Oran, ST6: June 73:987:9813
Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, Preprint No.1958, Apr 73
Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463
Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643
Vertical Wall Joints, M. Pommeret, TB:73:III-21-277
Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603
What Designers Should Know About Fracture Toughness, Arthur L. Elliott, Preprint No.1928, Apr 73
What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032

Structural Behavior
Response of Structures to Combined Blast Effects, Jeremy Isenberg, Li-chih Lee and Mihran S. Agbabian, TE4:Nov 73:887:10166

Structural Design
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, Preprint No.1970, Apr 73
Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
  TR:138:454
Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581
Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:624:9643
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159
Concrete Design Standards in Asia, State-of-Art Report 7, Hon Kwan Cheng, TB:73:III-20-117
Correlation of Test Results with Theoretical Analysis for Plastic Structures, Timothy J. Fowler, Preprint No.1955, Apr 73
Design Concepts for Prestressed Steel Structures, Miloslav Tochacek, TB:73:II-19-883
Design for Prevention of Progressive Collapse, Ramzi H. Ferahian, CE:Feb 72:66
  TR:138:102
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623
Esthetics in Structural Design, David P. Billington, CE:Oct 73:36
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585
Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217
Implementation, Elmer K. Timby, TB:73:C-DM-225
Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125
Limit Design -- For The Office and The Laboratory, Richard W. Furlong, Preprint No.1987, Apr 73
Limit State for Dynamic Loads, Horea Sandi, TB:73: III-26-938
Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949
Load Factor (Limit States) Design, Summary Report, W. C. Hansell and Ivan M. Viest, TB:73:II-19-899
Load Factor Design for Combination of Loads, Theodore V. Galambos and Mayasandra K. Ravindra, Preprint No.1940, Apr 73
Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Optimization, Akbar R. Tamboli, TB:73:II-14-239
Optimization of Structures, N. Khachaturian, TB:73: II-14-233
Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72: 249:8645
  TR:138:117
Participatory Management of Professionals, Thomas A. Marlow, CE:Oct 73:71
Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615
A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
  TR:138:75
Shock and Impulse Loadings as Related to Seismic Design, James F. Halsey, Preprint No.1962, Apr 73
Some Esthetic Considerations in Steel Design, Thomas C. Kavanagh, Preprint No.2115, Oct 73
Structural Animation, John E. Crawford, Preprint No.2087, Oct 73
Structural Design for Bounds on Dynamic Response, J.-M. Chern, J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057
Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Suggested Design Guides for Beams with Web Holes, by the Subcommittee on Beams with Web Openings of the Task Committee on Flexural Members of the Structural Division; John E. Bower, Chmn., ST11: Nov 71:2707:8536
  TR:138:30
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541: 9864
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007

Structural Engineering

Accurate Fourth Order Equation for Circular Cylindrical Shells, Shun Cheng, EM3:June 72:641:8982
TR:138:311

Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
TR:138:88

Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381:9585

Alternative Approach to Light-Gage Beam Design, James Rhodes and James M. Harvey, ST8:Aug 71:2119:8327
TR:138:9

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340

Analysis of Biaxially Loaded Steel H-Columns, Sakda Santathadaporn and Wai F. Chen, ST3:Mar 73:491:9621

Analysis of Curved Box Girder Bridges, Dhirendra N. Buragohain and Babu L. Agrawal, ST5:May 73:799:9715

Analysis of Curved Folded Plate Structures, Christian Meyer and Alexander C. Scordelis, ST10:Oct 71:2459:8434
TR:138:20

Analysis of Eccentrically Stiffened Cylindrical Shells, Peter C. Kohnke and William C. Schnobrich, ST7:July 72:1493:9033
TR:138:344

Analysis of Horizontally Curved Box Girder Bridges, Kuang-Han Chu and Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
TR:138:24

Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437

Analysis of Noncircular Cylindrical Shells, Imamuddin Khwaja and John Stephenson, ST1:Jan 73:33:9473

Analysis of Space Truss as Equivalent Plate, William R. Flower and Lewis C. Schmidt, ST12:Dec 71:2777:8569
TR:138:38

Analysis of Thin-Steel Hyperbolic Paraboloid Shells, Prabodh V. Banavalkar and Peter Gergely, ST11:Nov 72:2605:9356
TR:138:557

Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233:8643
TR:138:109

Analysis of T-Stub Flange-to-Column Connections, Ben Kato and William McGuire, ST5:May 73:865:9725

Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477

Analytical and Model Studies of Prestressed Folded Plates, F. Wayne Klaiber, Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818

Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234

Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550

Approximate Determination of Frame Critical Loads, F. David Edmonds and Ian C. Medland, ST3:Mar 72:695:8771
TR:138:161

Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
TR:138:551

Architectural Concerns are People Concerns, Frank L. Codella, Preprint No.2066, Oct 73

Aseismic Design by Way of Critical Excitation, Rudolf F. Drenick, EM4:Aug 73:649:9950

Aspects of Column Design in Tall Steel Buildings, John Springfield and Peter F. Adams, ST5:May 72:1069:8911
TR:138:258

Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
TR:138:202

Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division, Henry J. Degenkolb, Chmn., ST9:Sept 72:1913:9182
TR:138:433

Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
TR:138:268

Bearing Strength of Concrete--Geometric Variations, Sanat K. Niyogi, ST7:July 73:1471:9853

Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
TR:138:454

Behavior of Crossed Beams on Elastic Foundations, Ami Glassman, SM1:Jan 72:1:8626
TR:138:125

Behavior of Fiber Glass Reinforced Concrete Beams, Edward G. Nawy, Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353
TR:137:1011

Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
TR:138:319

Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800

Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7:July 72:1361:9010
TR:138:306

Bending and Torsion in Orthotropic Deck Box Girder, Michael S. Troitsky and Abdul K. Azad, ST9:Sept 72:1987:9168
TR:138:427

Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
TR:138:507

Biaxially Loaded Beam-Column Analysis, Ishwar C. Syal and Satya S. Sharma, ST9:Sept 71:2245:8384
TR:137:1015

Biaxial Stress-Strain Relations for Concrete, Tony C.Y. Liu and Arthur H. Nilson, ST5:May 72:1025:8905
TR:138:247

"Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, Donald R. Sherman, Chmn., ST7:July 72:1545:9055
TR:138:365

Buckling of Inelastic I-Beams Under Uniform Moment, Nicholas S. Trahair and Sritawat Kitipornchai, ST11:Nov 72:2551:9339
TR:138:536

Buckling of Laterally or Torsionally Restrained Beams, David A. Nethercot, EM4:Aug 73:773:9903

Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, Jacob Gluck and Menachem Gelbert, ST9:Sept 72:2031:9196
TR:138:451

Buckling of Longitudinally Stiffened Sheets, Niels C. Lind, TN: ST7:July 73:1686:9828

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
TR:138:547

Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682

Buckling of Wide Flange Columns About Minor Axis, Subhash C. Anand, Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513

Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
TR:138:509

Cellular Structures of Arbitrary Plan Geometry, Kaspar J. William and Alexander C. Scordelis, ST7: July 72:1377:9013
TR:138:315

Cold-Formed Steel Members with Perforated Elements, Wei-Wen Yu and Charles S. Davis, ST10:Oct 73:2061:10059

Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
TR:137:935

Column-Plate Interaction in Flat Slab Structures, Dieter D. Pfaffinger, ST1:Jan 72:307:8670
TR:138:134

Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968

Comparison of Approximate Linear Methods for Concrete Creep, Zdenek P. Bazant and Leonard J. Najjar, ST9:Sept 73:1851:10006

Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921
TR:138:275

Computer-Aided Design-Standard Oil of Indiana Building, Kanu S. Patel, Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4: Apr 73:621:9643

Computer Analysis of Buckling of Imperfect Shells, Robert E. Ball and Bruce A. Ryan, ST10:Oct 73: 2097:10072

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
TR:138:271

Concept of Structural Control, James T. P. Yao, ST7: July 72:1567:9048
TR:138:357

Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72: 2329:9325
TR:138:521

Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655

Continuous Helicoidal Girders, Assad Abdul-Baki and Abla Shukair, ST10:Oct 73:2183:10108

Convergence in Highly Nonlinear Cable Net Problems, Anil K. Kar and Clyde Okazaki, ST3: Mar 73:321:9601

Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281
TR:138:527

Coupled Local Buckling in Wide-Flange Beam-Column, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1003:9774

Cracking and Bond Slip in Concrete Beams, Bandaru Venkateswarlu and Hans Gesund, ST12:Dec 72: 2663:9423
TR:138:578

Cumulative Fatigue Damage in Seismic Structures, Mubadda T. Suidan and Robert A. Eubanks, ST5: May 73:923:9749

Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631

Cyclic Loading of Steel Beams and Connections, Egor P. Popov and Vitelmo V. Bertero, ST6:June 73:1189:9790

Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
TR:138:294

Deck-Stiffened Arch Bridges of Robert Maillert, David P. Billington, ST7:July 73:1527:9862

Deformation Analysis of Elastic - Plastic Frames, Donald E. Grierson, ST10:Oct 72:2247:9288
TR:138:499

Denmark's Lillebaelt Suspension Bridge, Christen Ostenfeld, CE:Dec 72:35
TR:138:526

Design of Cable-Stayed Girder Bridges, Man-Chung Tang, ST8:Aug 72:1789:9151
TR:138:416

Design of Columns for Seismic Loads, Aybars Gurpinar and James T.P. Yao, ST9:Sept 73:1875: 9978

Design of Steel Chimney Liners, Max Zar, Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500

Differential Expansion in Elastic Laminates, Akhilesh C. Agarwal and Mark W. Huggins, ST4:Apr 73: 655:9653

Differential Settlement of Hyperbolic Cooling Towers, Phillip L. Gould, ST10:Oct 72:2207:9252
TR:138:487

Direct Search Optimization Method, Ying-San Lai and Jan D. Achenbach, ST1:Jan 73:19:9470

Double Overlap Beam, Oliver A. Baer, ST11:Nov 72: 2541:9345
TR:138:542

Drag or Along-Wind Response of Slender Structures, Barry J. Vickery and Kwan H. Kao, ST1:Jan 72:21: 8635
TR:138:86

Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
TR:138:448

Dynamic Analysis of Cable Systems, Richard F. Dominguez and Charles E. Smith, ST8:Aug 72: 1817:9127
TR:138:388

Dynamic Analysis of Staggered Truss Framing System, Raj P. Gupta and Subhash C. Goel, ST7: July 72:1475:9038
TR:138:352

Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595

Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
TR:138:303

Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026
TR:138:338

Dynamic Testing of Curved Bridge - Huyck Stream, William L. Armstrong, ST9:Sept 72:2015:9179
TR:138:429

Dynamic Wind Stresses in Hyperbolic Cooling Towers, Salman H. Abu-Sitta and Mahmoud G. Hashish, ST9:Sept 73:1823:9989

Earthquake Design Formula Considering Local Soil Conditions, Semih S. Tezcan, ST9:Sept 71:2383: 8399
TR:138:15

Earthquake Resistant Design of Unbraced Frames, James C. Anderson and Raj P. Gupta, ST11:Nov 72:2523:9344
TR:138:540

Eccentrically Loaded Circular Plates on Columns, Kasem Chantaramungkorn, Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464

Effect of Major Axis Curvature on I-Beam Stability, Nicholas S. Trahair and Scott T. Woolcock, EM1: Feb 73:85:9548

Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB: 73:III-21-149

Elastic Lateral Buckling of Portal Frames, Porpan Vacharajittiphan and Nicholas S. Trahair, ST5:May 73:821:9720

Elastic Stability of Tapered I-Beams, Sritawat Kitipornchai and Nicholas S. Trahair, ST3:Mar 72: 713:8775
TR:138:165

Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, Christian Meyer, CE:Dec 73:63

Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, George Kostro, CE:Dec 73:64

Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64

Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79

Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, George Fekete, CE:Nov 73:80

Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7

Evaluation of Computer Charging Policies, Daniel Roos, ST7:July 73:1423:9849

Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545

Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
TR:138:473

Experimental Studies of Membrane Shear Transfer, Richard N. White and Myle J. Holley, Jr., ST8:Aug 72:1835:9145
TR:138:406

Factors Affecting Environmental Performance of High-Strength Bolts, Walter K. Boyd and W. S. Hyler, ST7:July 73:1571:9866

Failure Modes of Folded Sandwich Panel Roofs, Paul P. Fazio, ST5:May 72:1085:8913
TR:138:261

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
TR:138:572

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
TR:138:517

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49

Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7:July 73:1439:9854

Fatigue Damage Factor in Structural Design, Jhy-Pyng Tang and James T.P. Yao, ST1:Jan 72:125:8647
TR:138:126

Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62

Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855
TR:138:225

Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
TR:138:205

Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72

Field Analysis of Torsionless Bridge Grids, J. C. Smith and Donald L. Dean, ST9:Sept 73:1837:10031

Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
TR:137:969

Finite Deformation of Biaxially Loaded Columns, Lawrence A. Soltis and Paul P. Christiano, ST12:Dec 72:2647:9407
TR:138:568

Finite Difference Approach to Hyperbolic Paraboloids, M. I. Beg, ST2:Feb 72:429:8730
TR:138:146

Finite Element Analysis of Reinforced Concrete, Mubadda T. Suidan and William C. Schnobrich, ST10:Oct 73:2109:10081

Finite Element Approach to Plane Microelasticity, Mohammed H. Baluch, John E. Goldberg and Severino L. Koh, ST9:Sept 72:1957:9203
TR:138:461

Finite Element for Reinforced Concrete Frame Study, Wayne C. Kroenke, Martin J. Gutzwiller and Robert M. Lee, ST7:July 73:1371:9835

Finite Element Method for Wood Mechanics, Adam Al-Dabbagh, James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784
TR:138:174

Finite Element Solution of Inelastic Equations, Sundaramoorthy Rajasekaran and David W. Murray, ST6:June 73:1025:9773

Finite Element Thermoelastoplastic Analysis, Norman A. Cyr, Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
TR:138:372

Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719

FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
TR:138:169

Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968

Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
TR:138:176

Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735:9913

Full-Range Analysis of Concrete Frames, Angel L. Lazaro, III and Rowland Richards, Jr., ST8:Aug 73:1761:9934

Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231

General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73:365:9604

General Failure Analysis of Skeletal Plane Frames, Harald S. Harung and Malcolm A. Millar, ST6:June 73:1051:9776

General Treatment of Structural Modifications, John H. Argyris and John R. Roy, ST2:Feb 72:465:8732
TR:138:150

Glossary of Terms Pertaining to Structural Steel Engineering and Design, Ad Hoc Committee on Nomenclature, Administrative Committee on Metals of the Structural Division, Roland R. Graham, Jr., Chmn., ST8:Aug 71:2137:8322
TR:137:951

Guide for the Design of Aluminum Transmission Towers, by the Task Committee on Lightweight Alloys of the Committee on Metals of the Structural Division, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
TR:138:596

Gust Factors and Alongwind Pressure Correlations, Emil Simiu, ST4:Apr 73:773:9686

Hardy Cross and the Rise of Numerical Methods, James Michalos, ST3:Mar 72:691:8762
TR:138:153

High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757

High-Rise Panel Structures, Matthys P. Levy and Istvan S. Varga, ST5:May 72:975:8894
TR:138:240

High Strength Bolted Galvanized Joints, D. J. Laurie Kennedy, ST12:Dec 72:2723:9410
TR:138:576

How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848

Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142
TR:138:397

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595:9629

Impact Resistance of Ferro-Cement, Surendra P. Shah and William H. Key, Jr., ST1:Jan 72:111:8640
TR:138:101

Indirect Structural Analysis by Finite Element Method, Houch-chien Fu, ST1:Jan 73:91:9478

Inelastic Behavior Of R/C Cylindrical Shells, Harry G. Harris and Richard N. White, ST7:July 72:1633:9074
TR:138:376

Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071

Inelastic Buckling of Monosymmetric I-Beams, David A. Nethercot, TN: ST7:July 73:1696:9828

Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
TR:138:368

Inelastic Response of Column Segments Under Biaxial Loads, Wai F. Chen and Toshio Atsuta, EM4:Aug 73:685:9957

Inelastic Shear Deflection of Steel Beams, Dale G. Eyre, ST10:Oct 73:1985:10052

Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968

Influence of Joints in Panelized Structural Systems, Eric F.P. Burnett and R. Clement S. Rajendra, ST9: Sept 72:1943:9207
TR:138:465

Influence Surfaces for Curved Multibeam Bridges, Cenap Oran and Sheng Ching Lin, ST7:July 73:1349:9846

Interaction Equations for Biaxially Loaded Sections, Wai F. Chen and Toshio Atsuta, ST5:May 72:1035:8902
TR:138:245

Iterative Method for Solving Rectangular Plates, B. Sen, S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644
TR:138:113

Large Deflection Analysis of Prestressed Networks, John H. Argyris and Dieter W. Scharpf, ST3:Mar 72:633:8788
TR:138:185

Large Deflection Buckling of Space Frames, Kuang-Han Chu and Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
TR:138:589

Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
TR:138:559

Large Deflections of Curved Plates, Henry W.L. Lee and Conrad P. Heins, Jr., ST4:Apr 71:1143:8045
TR:138:1

Large Displacement Analysis of Thin Plates, James Colville, Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593

Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793
TR:138:199

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786
TR:138:181

Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829

Lateral-Torsional Buckling of Bulit-Up Beam-Columns, Hiroshi Yoshida and Susumu Nishida, TN: ST7:July 73:1713:9828

Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72:1:8634
TR:138:85

Limit Analysis of Ductile Fiber-Reinforced Structures, Richard H. Lance and David N. Robinson, EM1:Feb 72:195:8736
TR:138:130

Linear Stability Analysis of Beam-Columns, Negussie Tebedge and Lambert Tall, ST12:Dec 73:2439:10232

Linear Theory of Orthotropic Cylindrical Shells, Osman A. Marzouk and George Abdel-Sayed, ST11:Nov 73:2287:10143

Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
TR:138:504

Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741

Lower Bound Solutions for Continuous Orthotropic Slabs, B. Vijaya Rangan, ST3:Mar 73:443:9617

Lumped Parameter Model for Stability Analysis, Walter D. Pilkey and Kevin J. O'Connor, TN: ST7: July 73:1702:9828

Main Cables of Newport Suspension Bridge, Blair Birdsall, ST12:Dec 71:2825:8606
TR:138:58

Material Safety Requirements of Hyperbaric Facilities, William J. Bobisch and Michael Yachnis, ST7:July 72:1465:9019
TR:138:322

Mechanical Properties of Structural Cables, John B. Scalzi and William K. McGrath, ST12:Dec 71:2837:8604
TR:138:52

Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043:9195
TR:138:447

Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501

Modal Analysis for Structures with Foundation Interaction, Jose M. Roesset, Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603

Modal Analysis of Random Structural Systems, Timothy K. Hasselman and Gary C. Hart, EM3: June 72:561:8958
TR:138:273

Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
TR:138:48

Model and Prototype Studies of Box Girder Bridge, Raymond Eugene Davis, Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631
TR:138:70

Model Investigations of Shear Wall Structures, Alexander Coull and A. W. Irwin, ST6:June 72:1223:8936
TR:138:284

Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772

Moment-Rotation Curves for Locally Buckling Beams, J. Jay Climenhaga and R. Paul Johnson, ST6:June 72:1239:8954
TR:138:290

Multicell Curved Girder Model Studies, Conrad P. Heins, Jr., Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
TR:138:210

Nonlinear Beam and Plate Elements, Jimmy H. Smith, ST3:Mar 72:553:8768
TR:138:158

Nonlinear Discrete Element Analysis of Frames, Clifford O. Hays, Jr. and Hudson Matlock, ST10: Oct 73:2011:10091

Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
TR:138:562

Nonlinear Stress Analysis of Reinforced Concrete, Somasundaram Valliappan and T. F. Doolan, ST4: Apr 72:885:8845
TR:138:218

Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Nonstationary Random Column Buckling Problem, Raymond G. Jacquot, EM5:Oct 72:1173:9263
TR:138:501

Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785

TR:138:177

On Adaptive Structural Design, William R. Spillers and Lewis Friedland, ST10:Oct 72:2155:9245

TR:138:480

Optimal Design of Prestressed Concrete Poles, Manhar C. Thakkar and Bakul S. Bulsari, ST1:Jan 72:61:8632

TR:138:77

Optimal Fiber-Reinforced Plate Corners, Robert E. Melchers, TN: ST7:July 73:1692:9828

Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199

Optimum Design by Partitioning into Substructures, Uri Kirsch, Max Reiss and Uri Shamir, ST1:Jan 72: 249:8645

TR:138:117

Optimum Design of Prestressed Plates, Uri Kirsch, ST6:June 73:1075:9777

Optimum Fire Resistance of Structures, T. T. Lie, ST1:Jan 72:215:8638

TR:138:97

Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72: 1697:9154

TR:138:423

Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12: Dec 73:2345:10230

Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937

TR:138:288

Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72: 1007:8872

TR:138:230

Plastic Collapse of Horizontally Curved Bridge Girders, Chai Hong Yoo and Conrad P. Heins, Jr., ST4:Apr 72:899:8848

TR:138:221

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323

TR:138:515

Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72: 1769:9148

TR:138:409

Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN: ST:July 73:1708:9828

Post-Buckling of Axially Compressed Plates, Archibald N. Sherbourne and Robert M. Korol, ST10:Oct 72:2223:9239

TR:138:477

Post-Buckling of Geometrically Imperfect Plates, Ralph G. Dawson and Alastair C. Walker, ST1:Jan 72:75:8630

TR:138:67

Practical Approach to Two-Way Slab Design, Paul F. Rice, ST1:Jan 73:131:9485

Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906

Probabilistic Design for Random Fatigue Loads, Paul H. Wirshing and Edward B. Haugen, EM6:Dec 73: 1165:10223

Probabilistic Response of Nonlinear Buildings During Earthquakes, Alain H. Peyrot, ST11:Nov 72:2363: 9328

TR:138:531

Punching Failure of Slabs -- Transfer of Moment and Shear, Adrian E. Long, ST4:Apr 73:665:9654

Railway Box-Girder Bridge Erected by Launching, Jackson L. Durkee, ST7:July 72:1443:9028

TR:138:342

Rapid Design of Orthotropic Floor Beams, Peter G. Perry and Conrad P. Heins, Jr., ST11:Nov 72:2491: 9326

TR:138:526

Rapid Reduction of Banded Stiffness Matrices, Frederic W. Williams, TN: ST5:May 73:967:9704

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501

Reinforced Concrete Members with Cyclic Loading, Robert Park, Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011

TR:138:310

Reliability Optimization in Isostatic Structures, Emilio Rosenblueth and Enrique Mendoza, EM6: Dec 71:1625:8584

TR:138:38

Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869

Safe Limit Loading of Folded Plate Structures, Morris N. Fialkow, ST10:Oct 72:2181:9249

TR:138:483

The San Fernando Earthquake - A Lesson in Highway and Bridge Design, Arthur L. Elliott, CE: Sept 72:95

TR:138:424

Second-Order Collapse Load Analysis: LP Approach, Saleh B. Abdel-Baset, Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215: 10128

Seismic Design of Highway Structures, Keith D. Bull, ST8:Aug 72:1741:9135

TR:138:393

Shakedown of Grids, Dale G. Eyre and Theodore V. Galambos, ST10:Oct 73:2049:10049

Shakedown of Strain-Hardening Structures, John D. Meyer and Kurt H. Gerstle, ST1:Jan 72:95:8641

TR:138:106

Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870

Shear Lag Analysis of Rectangular Full-Width Tube Junctions, Bharat L. Mehrotra and Ashok K. Govil, ST1:Jan 72:287:8665

TR:138:128

Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876

TR:138:237

Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329

TR:138:533

The Shear Strength of Reinforced Concrete Members, by the Task Committee on Masonry and Reinforced Concrete of the Structural Division, James G. MacGregor, Chmn., ST6:June 73:1091: 9791

Shell and Plate Analysis by Finite Elements, Rembert F. Jones, Jr., ST5:May 73:889:9744

Shells for Standard Floor and Roof Elements, Robert J. Odello and Jay R. Allgood, ST10:Oct 73:1999: 10096

Short Term Deflection of Concrete Flat Plates, Jan C. Jofriet, ST1:Jan 73:167:9488

Simple Interaction Equations for Beam-Columns, Wai F. Chen and Toshio Atsuta, ST7:July 72:1413:9020

TR:138:326

Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729: 8544

TR:138:35

Solution of Linear Equations--State-of-the-Art, Christian Meyer, ST7:July 73:1507:9861

Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245: 10159

Some Aspects of Office Design Live Loads, Wilfred W.C. Siu and Niels C. Lind, ST11:Nov 73:2245: 10159

Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193

TR:138:439

Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377

Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Spatial and Temporal Variability of Live Loads, Jong-Cherng Peir and C. Allin Cornell, ST5:May 73:903:9747
Stability and Load Capacity of Members with No Tensile Strength, Felix Y. Yokel, ST7:July 71:1913:8253
  TR:137:976
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
Stability of Monosymmetric Beams and Cantilevers, John M. Anderson and Nicholas S. Trahair, ST1:Jan 72:269:8646
  TR:138:122
Stability of Novel Building Systems, State-of-Art Report 5, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-499
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB:73:III-23-517
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767
Stability of Unbraced Single-Bay Multistory Frames, Abel Helmy Salem, ST2:Feb 73:223:9552
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242
The State of the Art of Computer Graphics -- Applications in Structural Engineering, Task Committee on Computer Graphics of the Committee on Electronic Computation, Structural Division, Robert D. Logcher, Chmn., Preprint No.2024, Apr 73
Static Analysis of Suspension Bridges, Alan Jennings and John E. Mairs, ST11:Nov 72:2433:9321
  TR:138:508
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817
Statistical Analysis of Live Load in Column Design, Ross B. Corotis, ST8:Aug 72:1803:9123
  TR:138:384
Steel Column Buckling Under Thermal Gradients, Charles G. Culver, ST8:Aug 72:1853:9150
  TR:138:414
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Steel Frame Analysis and Connection Shear Deformation, David J. Fielding and Wai F. Chen, ST1:Jan 73:1:9481
Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
  TR:138:333
Stiffness Functions for Elastically Supported Members, Ian C. Medland, TN: ST2:Feb 73:295:9545
Stiffness of Reinforced Concrete Plates, Alex E. Cardenas, Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
  TR:138:566
Stiffness Requirements for Lateral Bracing, Bruce R. Mutton and Nicholas S. Trahair, ST10:Oct 73:2167:10086
Storywise Plastic Design for Multistory Steel Frames, Leroy Z. Emkin and William A. Litle, ST1:Jan 72:327:8675
  TR:138:139
Strength Analysis of Corner Column-Slab Connections, E. Ramzy F. Zaghlool, ST1:Jan 73:53:9471
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
  TR:138:253
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593:8143
  TR:137:943
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12:Dec 72:2753:9425
  TR:138:581
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
  TR:138:444
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089
Structural Art and Robert Maillart, David P. Billington, Preprint No.2108, Oct 73
Structural Concrete-Biaxial Bending and Compression, Cheng-Tzu Hsu and M. Saeed Mirza, TN: ST2:Feb 73:285:9545
Structural Optimization by Inscribed Hyperspheres, Roman Baldur, EM3:June 72:503:8934
  TR:138:242
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069
Structural Risk Analysis and Reliability-Based Design, Alfredo H-S. Ang, ST9:Sept 73:1891:10011
Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division, Alfredo H.S. Ang, Chmn., ST4:Apr 72:845:8842
  TR:138:214
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Structure-Foundation Interaction Analyses, Ian K. Lee and Peter T. Brown, ST11:Nov 72:2413:9352
  TR:138:554
Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132
Suggested Design Guides for Beams with Web Holes, by the Subcommittee on Beams with Web Openings of the Task Committee on Flexural Members of the Structural Division, John E. Bower, Chmn., ST11:Nov 71:2707:8536
  TR:138:30
Survey of Curved Girder Bridges, Subcommittee on Curved Girders, Roger L. Brockenbrough, Chmn., CE:Feb 73:54
Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564
Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055
Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475
Systems and Concepts, Preface, Fazlur R. Khan, TB:73:Ia-1
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
  TR:138:54
Tangent Stiffness in Plane Frames, Cenap Oran, ST6:June 73:973:9810
Tangent Stiffness in Space Frames, Cenap Oran, ST6:June 73:987:9813
Tangent Stiffness Method for Biaxial Bending, Sakda Santathadaporn and Wai F. Chen, ST1:Jan 72:153:8637
  TR:138:93
Temperature Rises in Low-Heat Cement Concrete, Barry P. Hughes, ST12:Dec 71:2807:8588
  TR:138:43
Temporal Operators for Nonlinear Structural Dynamics Problems, George Weeks, EM5:Oct 72:1087:9260
  TR:138:495
Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409:9850

Tests of Flat-Plate Corner Column-Slab Connections, E. Ramzy F. Zaghlool and H. A. Rawdon de Paiva, ST3:Mar 73:551:9616
Tests of Four Highway Bridges to Failure, Edwin G. Burdette and David W. Goodpasture, ST3:Mar 73:335:9627
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72:611:8791
TR:138:189
Theory of Cracking in Concrete Members, Arthur D. Edwards and Andre Picard, ST12:Dec 72:2687:9428
TR:138:584
Theory of Structural Code Optimization, Mayasandra K. Ravindra and Niels C. Lind, ST7:July 73:1541:9864
Thin Aluminum Shear Webs, Maurice L. Sharp and John W. Clark, ST4:Apr 71:1021:8048
TR:138:5
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249
Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN: ST1:Jan 73:229:9464
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129
Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12:Dec 72:2769:9453
TR:138:587
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
TR:138:467
Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73:715:9918
Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684
Ultimate Design of Hollow Thin-Walled Box Girders, Dennis H. Parr, ST7:July 72:1427:9021
TR:138:329
Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793
Unbraced Multistory Steel Frames with Wind Load, E. Whitman Wright, ST1:Jan 72:185:8633
TR:138:78
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64
Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828
Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8:Aug 73:1797:9911
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
TR:138:308
Walt Disney Hotel Assembled from Factory-made Rooms, CE:Jan 73:70
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620
Why Not Plastics Bridges?, Fred C. McCormick, ST8:Aug 72:1757:9143
TR:138:399
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
TR:138:142
Wind Spectra and Alongwind Structural Response, Emil Simiu, Preprint No.2086, Oct 73

81-ft Model of Prestressed Bridge, CE:Oct 72:83
TR:138:477

Structural Forms

Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93

Structural Members

Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Reanalysis for Limited Structural Design Modifications, Uri Kirsch and Moshe F. Rubinstein, EM1:Feb 72:61:8706
TR:138:75
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577

Structural Models

Model Analysis of Curved Box-Beam Highway Bridge, Ish K. Aneja and Frederic Roll, ST12:Dec 71:2861:8603
TR:138:48
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998
Structural Response of Concrete Box Girder Bridge, Alexander C. Scordelis, Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069

Structural Plastics

Plastic Sandwich Buckle-Shell Structures, V. James Meyers, Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
TR:138:515

Structural Stability

Boundary Effects on Stability of Structures, A. S. Chawla, HY9:Sept 72:1557:9199
TR:138:481
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Stability of Inelastic Shells, Lawrence H.N. Lee, Preprint No.2028, Apr 73
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911

Structural Steel

The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Fatigue Damage in Seismic Steel Members, R. Srinivasan and William H. Munse, TB:73:II-18-814
Glossary of Terms Pertaining to Structural Steel Engineering and Design, Ad Hoc Committee on Nomenclature, Administrative Committee on Metals of the Structural Division, Roland R. Graham, Jr., Chmn., ST8:Aug 71:2137:8322
TR:137:951
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Keynote Address at Tall Buildings Conference, Stewart S. Cort, Chairman, Bethlehem Steel Corp., TB:73:C-33
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432

Structural Steels
Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185

Structural Timber
Efficient Fabrication of Glued-Laminated Timbers, James W. Johnson, ST3:Mar 73:431:9623

Structure
Model Test and Analysis of Oblique Folded Plate Structure, James N. Siddall, Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772

Structures
Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085
Collapse Load Analysis Using Linear Programming, Donald E. Grierson and Graham M. L. Gladwell, ST5:May 71:1561:8127
  TR:137:935
Earthquake Repairs, Kaiser Hospital, Panorama City, California, Donald R. Strand, Preprint No.1996, Apr 73
Reliability of Structural Systems, Fred Moses, Preprint No.2023, Apr 73
Sway in Structures, Maxwell G. Lay, TB:73:II-16-590
Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN: ST1:Jan 73:229:9464

Struts
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348
  TR:138:547

Students
ASCE and Graduate Students: Faculty Advisor's Opinion, Keith C. Crandall, PP3:July 73:307:9882
What Graduate Students Want From ASCE, Harold J. Singer, PP3:July 73:313:9881

Subassemblies
Plastic Subassemblage Analysis for Unbraced Frames, J. Hartley Daniels and Le-Wu Lu, ST8:Aug 72: 1769:9148
  TR:138:409

Subcritical Flow
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603

Subdivisions
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
  TR:138:511

Subgrade
Subgrade Moisture Under Oklahoma Highways, T. Allan Haliburton, Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
  TR:138:114

Subgrades
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72: 311:8858
  TR:138:107
Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72: 1005:9363
  TR:138:541
Lime Reclaims Unstable Interior Subgrade During Construction, James M. Sheahan, CE:June 72:74
  TR:138:303
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
Subgrade Strengthening of Existing Airfield Runways, Quentin L. Robnett, TE2:May 73:267:9724
Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Submarine Topography
Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699

Submerged Flow
Axisymmetric Shallow Submerged Turbulent Jets, W. Hall C. Maxwell and Hormoz Pazwash, HY4:Apr 73:637:9675
Comparison of Bridge Backwater Relations, Gaylord V. Skogerboe, J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Computing Backwater at Open Channel Constrictions, J. W. Hugh Barrett and Gaylord V. Skogerboe, HY7:July 73:1043:9841
Plane Jet on Sloping Floors Under Finite Submergence, V. Mura Hari, HY9:Sept 73:1449: 10027
Vortex Containment of Submerged Jet Discharge, Robert L. Stoy, Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Submerging
Pneumatic Technique for Buoyant Caissons, Frederick E. Krauss, WW1:Feb 73:19:9516

Subsidence
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
  TR:138:307
An Evaluation of Mine Subsidence Potential, Richard E. Mabry, RM14:73:263
Industry Builds on a Refuse Dump, Hans J. Pfister, CE:Nov 72:50
  TR:138:487
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48

Subsoil
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald York, CE:Aug 73:56

Subsurface Drainage
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543: 9422
  TR:138:594

Subsurface Drains
Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3: Sept 72:363:9183
  TR:138:460
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543: 9422
  TR:138:594

Subsurface Flow
Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375: 10013

Subsurface Investigations
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
    Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE: May 73:58
  TR:138:221

Subsurface Irrigation
Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183
TR:138:460
Subsurface Hydrograph Analysis by Convolution, Willard M. Snyder and Loris E. Asmussen, IR3:Sept 72:405:9213
TR:138:514

Subsurface Structures
Gas Line Response to Earthquakes, John D. McNorgan, TE4:Nov 73:821:10149
In Situ Creep Analysis of Room in Frozen Soil, Erik G. Thompson and Francis H. Sales, SM9:Sept 72:899:9202
TR:138:464
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
TR:138:371

Subways
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, Preprint No.1926, Apr 73
Cofferdam for BARTD Embarcadero Subway Station, William J. Armento, SM10:Oct 73:727:10075
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518
Design of Temporary Retaining Structures for the Washington Subway System, James P. Gould, PES:73:III-251
Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
TR:138:590
The Viennese Subway System, Max Ellinger, TB:73:C-P-269
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
TR:138:194

Suction
Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121

Sugarcane
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

Sulfate Resisting Cements
Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73

Sulfates
Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73

Sulfides
Oxidation of Sulfide by O_2: Catalysis and Inhibition, Kenneth Y. Chen and J. Carrell Morris, SA1:Feb 72:215:8710
TR:138:181

Superconducting Magnets
Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163

Supercritical Flow
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691:9216
TR:138:497
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
TR:138:239
Supercritical Flow Over Sills at Incipient Jump Conditions, Karam S. Karki and Subhash Chander, HY10:Oct 72:1753:9235
TR:138:503

Supersonic Flow
Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691:9216
TR:138:497

Superstructures
Model Study of Beam-Slab Bridge Superstructures, Miguel Angel Macias-Rendon and David A. VanHorn, ST9:Sept 73:1805:9998

Supports
Buckling of Continuous Circular Plates, A. S. J. Swamidas and Vincent X. Kunukkasseril, EM4:Aug 73:835:9900
Deep Beam on Statically Indeterminate Supports, Prabhakara Bhatt, EM4:Aug 73:793:9902
Hyberboloidal Shells on Discrete Supports, Subir K. Sen and Phillip L. Gould, TN: ST3:Mar 73:595:9629
Structural Failures, Jack R. Janney, STF:73:11
Tranverse Stiffener Requirements for Curved Webs, Nicholas Mariani, John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684

Surcharge
Containerization and Its Impact on Port Development, Anthony J. Tozzoli, WW3:Aug 72:333:9126
TR:138:426
Water Used to Preload Unstable Subsoils, Anthony J. Tozzoli and Donald York, CE:Aug 73:56

Surface Irrigation
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
TR:138:331
Distribution Channels with Multiple Outlets, William E. Hart and John Borelli, IR2:June 72:267:8976
TR:138:356
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
Dsc: Richard D. Harza, CE:July 73:28; William A. Drewry, CE:Sept 73:29; Glenn W. Rehberger, CE:Sept 73:29
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443:9212
TR:138:502

Surface Preparation
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
TR:138:405

Surface Water Runoff
Unity of Stochastic and Deterministic Models in Hydrology, Rafael G. Quimpo, Preprint No.1897, Jan 73

Surface Waters
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663

Surface Waves
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995

Surges

Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
TR:137:1040

Surveying

Adjusting Radial Surveys, James R. Baker, SU2:Nov 72:157:9335
TR:138:501
Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
TR:138:149
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
TR:138:604
Automated Formulation of Condition Equations, Frank J. Hatfield, TN: SU1:Sept 73:151:10017
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
TR:138:313
Civil Engineers Help Construct the World's Largest Proton Accelerator, William D. Alexander, Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
TR:138:474
Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
TR:138:340
Computer Based Land Use Suitability Maps, Ralph W. Kiefer and Michael L. Robbins, SU1:Sept 73:39:10015
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72:219:9322
TR:138:470
Constructional Deformations in Rockfill Dam, Arthur Penman and Andrew Charles, SM2:Feb 73:139:9560
Coordinated Mapping Program Saves Money for County, Ivan F. Gennis and Joseph P. Allesandri, CE:Dec 73:45
Definitions of Surveying and Associated Terms -- Manual and Report on Engineering Practice No. 34, 1972, 205 pp.
TR:138:606
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
TR:138:445
The Environment and a Two-Billion Dollar Property, Carl Hammerstrom, SU1:July 72:51:9065
TR:138:393
Hydrography and the Engineer, Colin G. McQ Weeks, SU1:Sept 73:1:9981
Nonlinear Least Squares Algorithm, Mohamed F. Madkour, SU2:Nov 72:185:9357
TR:138:572
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
TR:138:525
Pipeline Location: Bibliography Supplement, Committee on Pipeline Location of the Pipeline Division, Edward T. Marsh, TE2:May 73:363:9739
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79:9976
Principles of Survey Error Analysis and Adjustment, Antonio M. Aguilar, SU1:Sept 73:107:10034
Project Planning, John M. Shields, SU1:July 72:61:9041
TR:138:202
Recommended Right-of-Way Practices, Harmer A. Weeden, CE:Apr 72:74
TR:138:211
Selection of Maps for Engineering and Planning, by the Task Committee for the Preparation of a Manual on the Selection of Map Types, Scales and Accuracies for Engineering and Planning of the Committee on Cartographic Surveying of the Surveying and Mapping Division, Antonio M. Aguilar, Chmn., SU1:July 72:107:9073
TR:138:420
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
TR:138:550
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72:167:9361
TR:138:595
Three-Dimensional Intersection-- A Vector Approach, William E. Ball, Jr., SU1:Sept 73:63:10030
Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008
Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
Dsc: William G.G. Blakney, CE:July 73:22

Surveying Instruments

Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
TR:138:313
Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
TR:138:255
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008

Surveys

Causes of Delay in the Construction Industry, John R. Baldwin, James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
TR:138:27
Comparison of Analytical Relative-Orientation Methods, Santosh K. Mahajan and Singh Vijay, SU1:July 72:73:9056
TR:138:340
Explicit Approach to Exterior Orientation, Santosh K. Mahajan, SU2:Nov 71:251:8518
TR:138:62
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, William L. Raymond, Jr., CE:Jan 72:71
TR:138:58
Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
TR:137:946
Planning Concrete Dam Construction Control Surveys, Maynard J. Willis, SU1:July 72:27:9045
TR:138:255
Project Planning, John M. Shields, SU1:July 72:61:9041
TR:138:202
Solar Astronavigation in High Latitudes, Gerald W. Johnson and James L. Clapp, SU1:May 71:27:8139
TR:138:29
Space Resection from Collinearity Conditions, Kunwar K. Rampal, SU2:Nov 71:205:8520
TR:138:92
Status Report of Surveying and Mapping Division, William A. White, SU2:Nov 71:267:8532
TR:138:121
Survey Design and Procedures, William E. Kreisle, CE:Feb 72:43
TR:138:77

Surveys (Data Collection)

Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93

Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87

Suspended Load

A Role of Sediment Transport in Alluvial Channels, Thomas Maddock, Jr., HY11:Nov 73:1915:10130

Sediment Transport: New Approach and Analysis, Peter Ackers and William Rodney White, HY11: Nov 73:2041:10167

Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12: Dec 72:2191:9456
TR:138:597

Suspended Sediments

Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, Vito A. Vanoni, Chmn., HY9:Sept 72:1647:9177
TR:138:455

Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73: 257:9753

Suspended Solids

Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72: 937:9401
TR:138:498

Filtrability Study on Secondary Effluent Filtration, Kou-Ying Hsiung, SA3:June 72:505:8965
TR:138:384

Suspended Structures

Cable Suspended Roof for Munich Olympics, Fritz Leonhardt and Jorg Schlaich, CE:July 72:41
Dsc: Joseph R. Passonneau, CE:Sept 72:61
TR:138:319

Influence of Edge Cables on Cable Network Behavior, Nejat Tugcu, TN: ST9:Sept 73:1970:9968

Suspension

Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
TR:138:212

Sweden

Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, Mogens Lorentsen, TB:73:III-23-585

Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
TR:138:406

Long-Term Loading Tests at Ska-Edeby, Sweden, Robert D. Holtz and Bengt B. Broms, PES:72:I-435

Stockholm Puts Sewage Plant Underground, Gosta E. Sandstrom and Edlund Strom, CE:Sept 73:78

Symmetry

Symmetry in Structural Mechanics, Peter G. Glockner, ST1:Jan 73:71:9475

Synthesis

Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72: 1935:9353
TR:138:548

Synthetic Rubber

Pavement Joint Seals, Kneeland A. Godfrey, Jr., CE: Mar 72:42
TR:138:127

Systems

Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662

Systems Approach to Building, James R. Cagley, CE: Apr 73:59
Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20

Systems Analysis

Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB: Aug 73:141

The Civil Engineer in the Multidisciplinary Design Team, David A. Novick, PP2:Apr 72:221:8826
TR:138:277

Delaware River Basin Modeling, Lewis G. Hulman and David K. Ericson, HY1:Jan 72:105:8668
TR:138:132

Econometric Model to Aid in Urban Planning Decisions, John F. Brotchie, Ron Sharpe and A. Ray Toakley, UP1:Mar 73:25:9587

Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
TR:138:518

Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2: Dec 71:149:8568

Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692

A Master Planning Methodology for Urban Drainage, Harold F. Bishop, Preprint No.1887, Jan 73

Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715
TR:138:200

Parameters of Rational Airfield Pavement Design System, William Ronald Hudson and Thomas W. Kennedy, TE2:May 73:235:9722

Pattern Discovery in Urban Environment, Tung Au and Andrew K.C. Wong, Preprint No.1993, Apr 73

Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183

Planning and Updating Farm Irrigation Schedules, Nathan Buras, Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586

Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185

Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73: Ib-9-889

The Quality System as Seen by the Government Engineer-Administrator, Ellis L. Armstrong, Preprint No.1882, Jan 73

Quality System in Construction, Edward A. Abdun-Nur and John E. Rinne, Preprint No.1912, Jan 73

Reliability of Structural Systems, Fred Moses, Preprint No.2023, Apr 73

River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806

Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, J. C. Orman, Chmn., ASC73: Mar 73:107

Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625

Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659

Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
TR:138:105

Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71: 65:8457
TR:138:10

A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
TR:138:592

Systems Approach to Power Planning, J. George Thon, HY4:Apr 73:589:9661

Systems Approach to River Basin Management, Stephen J. Burges and Brian W. Mar, Preprint No.1877, Jan 73

Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73: 573:9660

Trends in Airport Planning, Reginald J. Sutherland, ASC73:Mar 73:193

Systems Engineering

Airport Access Cost-Effectiveness Analysis, Richard de Neufville and Edward Mierzejewski, TE3:Aug 72:663:9141
TR:138:428
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Civil Engineering and National Goals in Bioengineering, George Bugliarello, PP4:Oct 72: 645:9282
TR:138:591
Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Computer-Aided Design of Airport System Plans, Everett S. Joline, Preprint No.2058, July 73
Computer-Based Optimal Design of Sewer Systems, LaVere B. Merritt and Richard H. Bogan, EE1:Feb 73:35:9578
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
TR:138:218
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, Preprint No.1898, Jan 73
Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
Ethical Optimization in Engineering, Emilio Rosenblueth, PP2:Apr 73:223:9669
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585
Fleet Selection for Solid Waste Collection Systems, Robert M. Clark and Billy P. Helms, SA1:Feb 72: 71:8720
TR:138:216
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985
Health Services Authority of Delaware, E. Wayne Martz, Preprint No.2068, Oct 73
Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781
Inclusion of Social Values in Facility Location Planning, David Morris, UP1:July 72:17:9023
TR:138:167
Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB: 73:Ib-8-523
Modeling, Analysis and Updating of Uncertainties, Wilson H. Tang and Alfredo H.-S. Ang, Preprint No.2016, Apr 73
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253: 9795
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
TR:138:534
Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
TR:138:450
Pedestrian System Planning for High Rise Buildings, John J. Fruin, Preprint No.2055, July 73
Planning Aspects for Variable and Fixed Heading Berthing Platforms, Harry Ekizian, Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, Roy E. Ramseier, Chmn., SA5:Oct 72:707:9237
TR:138:461
The Role of the Engineer in Systems Building, Tung Y. Lin, Preprint No.2012, Apr 73
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
TR:138:566
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
TR:138:4
The Shifting Paradigm, George B. Begg, Preprint No.1984, Apr 73
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
TR:138:417
Streamflow Synthesis - A Case Study, Vulli L. Gupta and John W. Fordham, HY6:June 72:1049:8969
TR:138:336
Structural Systems, Summary Report -- Part II, Friedrich K. Reinitzhuber, TB:73:Ia-3-651
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133
System for Control of Construction Quality, Roland M. Parsons, CO1:Mar 72:21:8757
TR:138:159
Systems Approach and the Civil Engineer, Kenneth W. Heathington and R. Brian Bonton, PP1:Oct 71: 65:8457
TR:138:10
A Systems Approach to Hospital Planning and Design, Tung Au, Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
TR:138:592
Systems Approach to River Basin Management, Stephen J. Burges and Brian W. Mar, Preprint No.1877, Jan 73
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
TR:138:54
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Transportation Problem Formulation and Evaluation, R. W. Woodhead and R. H. Wortman, Preprint No.2042, July 73
Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543: 9174
TR:138:446
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213

Systems Management

Floor-Ceiling System Features Precast Concrete Units, Jerome S.B. Iffland, CE:Apr 72:52
TR:138:186
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909

Tailings

Shear Strength of Homestake Slimes Tailings, James V. Hamel and James W. Gunderson, TN: SM5:May 73:427:9703
Similkameen Pipeline Suspension Bridge, Stephen C. Chen and John G. McMullan, Preprint No.1983, Apr 73

Tailrace

Graphical and Computer Analysis of Tailrace Surges, C. Samuel Martin, PO3:July 71:697:8261
TR:137:1040

Tailwater

Theoretical Irrigation Tailwater Volumes, Ott C. Wilke, TN: IR3:Sept 73:415:9967

Tall Buildings

Additional Items Affecting Frame Strength, Egor P. Popov, TB:73:II-16-595
Aesthetics of Tall Buildings, William Henderson, TB:73:Ia-1-256
AMP Centre, Peddle, Thorp and Walker, TB:73:C-P-402
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, John A. Blume, TB:73:Ib-6-191
An Approach to Performance Specifications for Public Buildings, Richard Crenshaw, Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
TR:138:551
Architectural Concerns are People Concerns, Frank L. Codella, Preprint No.2066, Oct 73
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, Fritz Rafeiner, TB:73:Ia-12-1095
Architectural Criteria of Tall Buildings in Germany and Europe, Fritz Rafeiner, TB:73:Ia-12-1151
Architectural Elements in European Practice, State-of-Art Report 2A, Jean H. Polak, TB:73:Ia-12-1079
Architectural Seismic Detailing, State-of-Art Report 3, Ormond Robert Berry, TB:73:Ia-12-1115
Architectural-Structural Interaction, Theme Report, Richard E. Lenke, TB:73:Ia-12-1057
Architectural-Structural Interaction, Summary Report, Gunnar Essunger, TB:73:Ia-12-1163
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199
Aseismic Design in Romania, P. Mazilu, TB:73:Ib-6-279
Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299
Athens Tower, A. Albertis-TH. Dimopoulos S.A., TB:73:C-P-502
Australia Square, Seidler & Associates, TB:73:C-P-418
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382
Bank of New South Wales, Peddle, Thorp and Walker, TB:73:C-P-408
Beam-Column Design, Maxwell G. Lay, TB:73:II-15-382
Beam-to-Column Connections in Non-Sway Frames, J. Witteveen and C. T.J. Bakker, TB:73:II-15-386
Beam-To-Girder Connections, Vincent R. Cartelli, TB:73:II-15-371
Behavior of Biaxially Loaded Columns, Wai F. Chen, TB:73:II-16-575
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, Karl Kordina, TB:73:III-23-555
Behaviour of Concrete-Filled Steel Tubular Columns, Wai F. Chen, TB:73:III-23-608
Brandywine Building, Vincent G. Kling and Partners, TB:73:C-P-386
Buckling Formulas for Design, John E. Goldberg, TB:73:II-16-581
Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
TR:138:509
Cast-In-Place Joints for Tall Buildings, Karl Kordina, TB:73:III-21-308
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, James O. Jirsa, TB:73:III-21-191
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, John V. Christiansen, TB:73:Ia-3-437
Central Penn National Bank, Vincent G. Kling and Partners, TB:73:C-P-362
Central Square, Fox & Associates, TB:73:C-P-424
Centre Square, Vincent G. Kling and Partners, TB:73:C-P-390
Century Park Plaza, Welton Becket and Associates, TB:73:C-P-334
Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, A. Kondratiev, TB:73:II-14-157
Chestnut-DeWitt Apartments, Skidmore, Owings & Merrill, TB:73:C-P-496
The Chicago Civic Center, Skidmore, Owings & Merrill, TB:73:C-P-492
CIL House, M. I. Gilmore, TB:73:C-P-284
Citizens Fidelity Bank, Welton Becket and Associates, TB:73:C-P-330
City Mutual Building, Seidler & Associates, TB:73:C-P-422
The City Planning Environment and Tall Buildings, Calvin S. Hamilton, Preprint No.2044, July 73
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Clinton Square, Welton Becket and Associates, TB:73:C-P-338
Closing Remarks at Tall Buildings Conference, Le-Wu Lu, TB:73:C-511
Closing Remarks at the Tall Buildings Conference, Michael P. Gaus, TB:73:C-509
Codes and Model Testing, John Springfield, TB:73:Ib-7-431
Code Specification of Safety and Serviceability, State-of-Art Report 2, Emilio Rosenblueth, TB:73:Ib-10-931
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Commentary on Structural Standards, Summary Report, Ira Hooper, TB:73:II-13-147
Commentary on Structural Standards, Summary Report, Emory L. Kemp, TB:73:III-20-139
Commentary on Structural Standards, Theme Report, P. A. Lorin, TB:73:II-13-7
Commentary on Structural Standards, Theme Report, J. Despeyroux, TB:73:III-20-7
Comments on Fire, M. Galbreath, J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721
Commerce Court, M. I. Gilmore, TB:73:C-P-294
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), H. Rubin, TB:73:II-17-709
Composite Cores and Columns, Hannskarl Bandel, TB:73:Ia-3-632
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, Emil Grasser and F. Daschner, TB:73:III-21-290
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB:73:III-21-265
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, Kenneth F. Reinschmidt, TB:73:C-AC31-159
Concrete Design Standards in Arab Countries, State-of-Art Report 6, Jacques Nasser, TB:73:III-20-113

Concrete Design Standards in Asia, State-of-Art Report 7, Hon Kwan Cheng, TB:73:III-20-117
Concrete Frame Construction, State-of-Art Report 6, W. S. Bellows, Jr., TB:73:Ia-4-777
Concrete Quality, Neil Jackson, TB:73:Ib-9-896
Construction in South America, State-of-Art Report 5, Sergio E. Pellegrini, TB:73:Ia-12-1135
Construction Systems, Theme Report, Sherwin P. Asrow, TB:73:Ia-4-661
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271
Control of the Construction Process, State-of-Art Report 2, Richard C. Halpern, TB:73:Ia-4-689
Cracking and Control, Neil Jackson, TB:73:III-24-723
Cracking and Crack Control, Karl Kordina, TB:73:III-24-721
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Crestline Apartments, Grigalis & Associates, TB:73:C-P-458
Criteria and Loading, Preface, Thomas C. Kavanagh, TB:73:Ib-1
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, Morihisa Fujimoto and Issao Funahashi, TB:73:II-13-87
Current Questions, Problems, and Research Needs, State-of-Art Report 2, S. Covarrubias, A. Chen, S. Parsanejed and Wai F. Chen, TB:73:C-AC11-63
Damage Evaluation, State-of-Art Report 5B, S. Bubnov, TB:73:Ib-6-247
Dead, Live and Construction Loads, State-of-Art Report 3, Sidney M. Johnson, TB:73:Ib-5-59
Deep Foundations - Piles and Caissons, State-of-Art Report 4A, G. M. Cornfield, TB:73:Ia-11-925
Deflections of Lightweight Reinforced Concrete Beams, John L. Heiman, TB:73:III-25-811
Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
Design Assumptions, C. K. Lalwani, TB:73:Ib-5-127
Design Concepts for Prestressed Steel Structures, Miloslav Tochacek, TB:73:II-19-883
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423
Design for Stability in High Rise Buildings, State-of-Art Report 2, Jerome S.B. Iffland, TB:73:II-16-445
Design for the Limit State of Instability, James G. Mac Gregor, TB:73:III-26-936
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, Stanley T. Rolfe and G. R. Egan, TB:73:II-18-781
Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771
Design Methods Based on Stiffness, Summary Report, William J. Le Messurier, TB:73:II-17-715
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Design of Compensated Foundations, State-of-Art Report 1, Leonardo Zeevaert, TB:73:Ia-11-853
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, Joaquin Monge and E. Calcagni, TB:73:III-21-310
Determination of Stresses in Columns of Steel Framed Tall Buildings, V. A. Baldin, TB:73:C-AC17-131
Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845
Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893
Distribution of Wind Loads to Soils, State-of-Art Report 2, S. V. De Simone, TB:73:Ia-11-881
Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635
Ductility and Seismic Response, Vitelmo V. Bertero, TB:73:Ib-6-303
Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, Roman Ciesielski and Janus Kawecki, TB:73:Ia-11-999
Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, Preprint No.1934, Apr 73
Dynamic Soil-Structure Interaction, Robert V. Whitman, TB:73:Ib-6-310
Earthquake Effects on the Masonry of Multistory Buildings, Juan S. Carmona, TB:73:Ib-6-284
Earthquake Ground Motion, State-of-Art Report 1, George W. Housner, TB:73:Ib-6-159
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
TR:138:416
Earthquake Loading and Response, Summary Report, Ray W. Clough, TB:73:Ib-6-327
Economic and Social Aspects, State-of-Art Report 6, C. Martin Duke, Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255
Economic Basis for Seismic Resistance, Herbert A. Sawyer, TB:73:Ib-6-319
Economic Modelling, Alan D. Russell, Preprint No.2066, Oct 73
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, Richard D. Steyert, EHRA:72:
TR:138:387
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, Richard D. Steyert, TB:73:Ia-1-103
Economics of High-Rise Buildings, State-of-Art Report 4B, Walter F. Conlin, Jr., TB:73:Ia-1-119
Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, Alexei A. Gvozdev and E. A. Chistiakov, TB:73:III-23-537
Effect of Foundation Rotation, D. Dicke, TB:73:III-23-621
Effects of Foundations on Adjacent Structures, State-of-Art Report 3, E. Horvat and Cornelius van der Veen, TB:73:Ia-11-905
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, Vitelmo V. Bertero, TB:73:III-22-431
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Elastic Analysis and Design, Theme Report, Edwin H. Gaylord, TB:73:II-14-153
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elastic Analysis of Tall Concrete Buildings, Jacob Gluck, TB:73:III-21-300
Elastic Analysis-Strength of Members and Connections, Theme Report, Russell S. Fling, TB:73:III-21-149
Elastic Analysis-Strength of Members and Connections, Summary Report, Bruno Thurlimann, TB:73:III-21-325
Elastic and Limit States Design, I. A. El-Demirdash, TB:73:II-19-892
Elastic-Plastic Instability of Multi-Story Frames, Sriralumu Vinnakota, TB:73:II-16-568
Electrical Systems in Tall Buildings, State-of-Art Report 5, Jo Chen Strunk, TB:73:Ia-2-349
Empresa Nacional de Electricidad S. A. - Endesa's Building, Luis Larraguibel, TB:73:C-P-478
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153

Excavations and Deep Foundations, T. D. Dismuke, TB:73:Ia-11-1014

Exchange Centre, Peddle, Thorp and Walker, TB:73:C-P-406

Experimental Results of Joint Tests, Michel Kavyrchine, TB:73:III-21-323

External Blast, Stanislaw Kajfasz, TB:73:Ib-8-717

External Transportation, State-of-Art Report 9, Roger M. Seitz, TB:73:Ia-1-211

Factor of Safety of Connections, R. Delesques, TB:73:II-19-890

Failure Model Calculations, Horea Sandi, TB:73:Ib-10-1038

Fatigue and Fracture, Summary Report, William H. Munse, TB:73:II-18-818

Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721

Fatigue Damage in Seismic Steel Members, R. Srinivasan and William H. Munse, TB:73:II-18-814

Fatigue Damage in Seismic Structures, Mubadda T. Suidan, TB:73:II-18-808

Fidelity Mutual Life, Vincent G. Kling and Partners, TB:73:C-P-368

Field Observations, Theme Report, Michael P. Gaus, TB:73:C-AC17-127

Finland House, Kahn & Jacobs, TB:73:C-P-350

Fire and Blast, Summary Report, Duiliu Sfintesco, Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739

Fire and Blast, Theme Report, Duiliu Sfintesco, TB:73:Ib-8-463

Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, Ove Pettersson, TB:73:Ib-8-585

Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475

Fire Safety, Calvin H. Yuill, TB:73:Ib-8-677

First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322

First National Bank of Oregon, Ormond Robert Berry, TB:73:C-P-258

First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494

Flexural Stiffness, James G. Mac Gregor, TB:73:III-24-724

Focal Points of the Studies in Our Design, Kiyoshi Muto, TB:73:C-DM-217

Foreword, ASCE-IABSE Joint Committee on Tall Buildings, TB:73:C-P-229

Foundation Design, Summary Report, E. De Beer, TB:73:Ia-11-1026

Foundation Design, Theme Report, William F. Swiger, TB:73:Ia-11-849

Frame Analysis Considering Connection Shear Deformation, Wai F. Chen and David J. Fielding, TB:73:II-15-365

The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85

General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, P. T. Mikluchin, TB:73:III-27-959

General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67

German Code Requirements, Gert Konig, TB:73:Ib-10-1027

Goal Oriented Systems Approach to Building Fire Safety, Harold E. Nelson, TB:73:Ib-8-692

Gravity Loads and Temperature Effects, Summary Report, D. E. Allen, TB:73:Ib-5-145

Half Frame Method, Bernardo J. Deschapelles, TB:73:II-16-591

Hampshire Plaza, Welton Becket and Associates, TB:73:C-P-342

Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319

High Capacity Prestressed Concrete Piling, Ben C. Gerwick, Jr., TB:73:Ia-11-985

High Cycle Fatigue of Connections and Details, State-of-Art Report 4, John W. Fisher and T. R. Gurney, TB:73:II-18-757

High Quality Structural Masonry Based on Controlled Parameters, Sven Sahlin, TB:73:III-27-1086

High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067

High Rise Construction in France, State-of-Art Report 4B, Jean A. Roret, TB:73:Ia-4-741

Historical Steel Frame in France, Duiliu Sfintesco, TB:73:Ia-1-268

The History and Philosophy of Tall Buildings, State-of-Art Report 1, Neal FitzSimons, TB:73:Ia-1-41

History and Philosophy of Tall Buildings, Rowland J. Mainstone, TB:73:Ia-1-264

Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375

Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240

Human Response Factors, Theme Report, Fu-Kuei Chang, TB:73:C-AC19-137

Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811

Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687

Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, J. F. Camellerie, TB:73:Ia-4-781

ICBO-BOCA Fire Provisions, John G. Degenkolb, TB:73:Ib-8-733

Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77

Implementation, Elmer K. Timby, TB:73:C-DM-225

Imposed Rotations Methods, State-of-Art Report 3, Jean Claude Maldague, TB:73:III-22-395

Inelastic Behavior Under Cyclic Loading, Egor P. Popov, TB:73:II-15-383

Inelastic Dynamic Behavior of Tall Buildings, James Lord, TB:73:Ib-6-291

Inspection Practices for Tall Buildings, Lowell A. Napper, TB:73:Ib-9-898

Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867

Interaction Approach in Poland, Stanislaw Kajfasz, TB:73:Ia-12-1149

Interaction of Structural Elements with Cladding, State-of-Art Report 5, Pierre Dubas, TB:73:II-17-675

Internal Blast, State-of-Art Report 6, Rowland J. Mainstone, TB:73:Ib-8-643

International Standards on Steel, Albert J. Oudheusen, TB:73:II-13-135

Introduction -- Planning and Design of Tall Buildings: Societal Aspects, Thomas C. Kavanagh, Preprint No.2066, Oct 73

Introduction to Tall Buildings Conference, Lynn S. Beedle, Chmn, TB:73:C-21

Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1

Japanese Structural Standards for Reinforced Concrete Buildings, Masahide Tomii, TB:73:III-20-125

John Hancock Center, Skidmore, Owings & Merrill, TB:73:C-P-498

Keynote Address at Tall Buildings Conference, Stewart S. Cort, Chairman, Bethlehem Steel Corp., TB:73:C-33

La Defense, Duiliu Sfintesco, TB:73:Ia-1-274

Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, Y. Yokoo and H. Akiyama, TB:73:II-17-619

Le Chateau Champlain, T. A. Monti, TB:73:C-P-278

Limit State for Dynamic Loads, Horea Sandi, TB:73:III-26-938

Limit States Design, Summary Report, Felix Y. Yokel and Richard N. Wright, TB:73:III-26-949

Limit States Design, Theme Report, Franco Levi, TB:73:III-26-843

Load Factor (Limit States) Design, Summary Report, W. C. Hansell and Ivan M. Viest, TB:73:II-19-899

Load Factors, State-of-Art Report 3, Tamas Karman, TB:73:III-26-901

Loadings on Buildings, State-of-Art Report 2A, G. R. Mitchell, TB:73:Ib-5-19
Loads and Load Combinations, State-of-Art Report 4, Horea Sandi, TB:73:Ib-10-973
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
Long-Wave Extensional Buckling of Large Regular Frames, Zdenek P. Bazant and M. Christensen, ST10:Oct 72:2264:9301
TR:138:504
Los Manantiales, Luis Alfonso Pagan, TB:73:C-P-484
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Masonry Structures, Summary Report, Robert D. Dikkers, TB:73:III-27-1103
Masonry Structures, Theme Report, Arnold W. Hendry, TB:73:III-27-957
Mass Produced Steel Systems, State-of-Art Report 4, Robert O. Disque, TB:73:Ia-3-477
McGraw-Hill, Harrison & Abramovitz, TB:73:C-P-430
Meaning of Structural Design, Bruce G. Johnston, TB:73:II-19-894
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB:73:Ib-8-523
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833
Methods of Analysis, Bernardo J. Deschapelles, TB:73:III-21-309
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, Toshiharu Hisatoku and Fujio Nishikawa, TB:73:Ia-3-501
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Municipal Services Building, Vincent G. Kling and Partners, TB:73:C-P-456
Nauru House, Perrott, Lyon, Timlock & Kesa, TB:73:C-P-428
A New Kind of Ground Motion, G. Rudolfo Saragoni, TB:73:Ib-6-323
New Mortars, Prefab Walls Transform Concrete Masonry, Henry T. Toennies, CE:July 73:46
Non-Linear Analysis and Limit Design, Summary Report, Herbert A. Sawyer, TB:73:III-22-483
Nonlinear Analysis of Concrete Flexural Members, John M. Kulicki and Celal N. Kostem, TB:73:III-22-473
Non-Synchronous Ground Motion, Horea Sandi, TB:73:Ib-6-325
One Astor Plaza, Kahn & Jacobs, TB:73:C-P-348
One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
One Shell Plaza, Skidmore, Owings & Merrill, TB:73:C-P-488
One Shell Square, Skidmore, Owings & Merrill, TB:73:C-P-490
Opening Remarks to Tall Buildings Conference, Le-Wu Lu, Conference Chairman, TB:73:C-19
Optimization, Akbar R. Tamboli, TB:73:II-14-239
Optimization of Structures, N. Khachaturian, TB:73:II-14-233
Optimum Earthquake Design of Shear Buildings, Ben Kato, Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
TR:138:343
Optimum Plastic Design of Steel Frames, Bogdan O. Kuzmanovic and Nicholas Willems, ST8:Aug 72:1697:9154
TR:138:423
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225
Pedestrian System Planning for High Rise Buildings, John J. Fruin, Preprint No.2055, July 73
Penn Center, Vincent G. Kling and Partners, TB:73:C-P-380
Photographs of Tall Buildings, State-of-Art Report 2, N. Abaya and E. Ozer, TB:73:C-AC14-113
Pittsburgh National Building, Welton Becket and Associates, TB:73:C-P-310
Planning and Design at the Overall Building Level, State-of-Art Report 2, M. P.T. Linzey and John F. Brotchie, TB:73:C-AC31-183
Plastic Analysis and Design, Summary Report, George C. Driscoll, Jr., TB:73:II-15-399
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, Horatio Allison, TB:73:II-15-279
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, M. R. Horne, TB:73:II-15-311
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653
Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327
Polynomial Stiffness Coefficients, Jacob Gluck, TB:73:II-16-593
Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069
Precast Composite Flooring, State-of-Art Report 10, Hansjurgen Sontag, TB:73:Ia-3-591
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489
Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, S. Hal Iyengar, TB:73:II-14-185
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, Richard Dziewolski, TB:73:Ia-3-615
Probabilistic Analysis of Fire Safety, Sven Erik Magnusson, TB:73:Ib-10-1016
A Probabilistic Approach Toward Integrated Fire Engineering Design, J. Witteveen, TB:73:Ib-8-728
Probabilistic Methods, Jack R. Benjamin, TB:73:Ib-10-1013
Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Progressive Collapse Risk, Norman F. Somes, TB:73:Ib-8-727
Prudential Insurance Tower, Charles Luckman Associates, TB:73:C-P-358
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165
Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73:Ib-9-901
Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749
Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817
Quality Control of Concrete in Germany, Manfred Stiller, TB:73:Ib-9-897
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, S. Reznik, TB:73:Ib-9-889
Rating of Ground Motion, Arturo Arias, TB:73:Ib-6-320
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, Kristoffer Apeland, TB:73:Ib-5-85
Reinforced Concrete Beam-Column Joints, Yoichi Higashi and Yoshimasa Owada, TB:73:III-21-259
Reinforced Concrete Column Response to Fire, Boris Bresler and H. Bizri, TB:73:Ib-8-723
Reinforced Masonry and the Pathology of Masonry, O. Pfeffermann, TB:73:III-27-1088
Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, Michel Kavyrchine, TB:73:Ia-3-415
A Remark on the Probabilistic Analysis of Structural Safety, Alessandro Baratta, TB:73:Ib-10-1039
Repair of Steel Structures After Fire, Roger H. Wildt, TB:73:Ib-8-688
Repeated and Cyclic Loadings, Hiroyuki Aoyama, TB:73:III-22-460
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, Gaylord R. Claiborne and Lucien Wahl, TB:73:Ib-8-541

Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Research Review -- North and South America, State-of-Art Report 3, W. A. Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
The Resilient Mounting of RHM Centre (Tower Block), R. W.F. Harris and R. W. Turner, TB:73:III-24-711
Response Function, State-of-Art Report 4, Theodore V. Galambos, TB:73:II-19-861
Response of Steel Building in Fire, Maxwell G. Lay, TB:73:Ib-8-719
Response of Tall Buildings to Wind Loading, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, Preprint No.1939, Apr 73
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Review of Steel Design Standards in Australia, State-of-Art Report 4B, Maxwell G. Lay, TB:73:II-13-71
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, Randall H. Wood, TB:73:II-15-293
Rochester High-Rise 'Safety Package', David L. Garratt, CE:July 73:66
Rotonda Vitacura Building, J. Aguirre and A. Aguirre, TB:73:C-P-482
Royal Bank Building, M. I. Gilmore, TB:73:C-P-288
Royal Exchange Building, Peddle, Thorp and Walker, TB:73:C-P-414
Safety Analysis for Tall Buildings, State-of-Art Report 5, Fred Moses and Milik Tichy, TB:73:Ib-10-993
Safety Level Decisions, State-of-Art Report 3, Niels C. Lind and E. Basler, TB:73:Ib-10-961
Safety Practices, State-of-Art Report 3, Rex K. Rainer and Phillip F. Moon, TB:73:Ia-4-701
Sears Tower, Skidmore, Owings & Merrill, TB:73:C-P-500
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, A. Negoita and Ion G. Pop, TB:73:III-21-247
Seismic Design of Nonstructural Elements, Roland L. Sharpe, TB:73:Ia-12-1143
Serviceability, Emil Grasser, TB:73:III-22-465
Service Systems in Relation to Architecture, State-of-Art Report 1, Rudiger Thoma, TB:73:Ia-2-307
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
Service Systems, Theme Report, Richard Baum, TB:73:Ia-2-305
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827
Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598
Social Psychological Factors, Density, in Tall Buildings, Roy C. Herrenkohl, Preprint No.2066, Oct 73
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139
Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
Soil-Structure Interaction, Michele Belloni and Michele B. Jamiolkowski, TB:73:Ia-11-990
Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, John T. Christian, TB:73:Ia-11-967
Soil-Structure Interaction for Tall Buildings, John A. Focht, Jr., TB:73:Ia-11-1008
Some Esthetic Considerations in Steel Design, Thomas C. Kavanagh, Preprint No.2115, Oct 73
Some New Plastic Analysis and Design Techniques, Leroy Z. Emkin, TB:73:II-15-377
Some Structural Problems-Standard Oil Building of Indiana, Jose M. Roesset, Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644
Sprinklers, H. W. Marryatt, TB:73:Ib-8-681
Stability and Drift Problem, State-of-Art Report 3, P. Dayaratnam and Y. C. Das, TB:73:II-15-303
Stability of Framed Struct , Moshe F. Rubinstein and Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability of Overall Structural Systems, S. Hal Iyengar, TB:73:II-16-564
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, James G. Mac Gregor, TB:73:III-23-517
Stability of Three Dimensional Building Frames, State-of-Art Report 4, Peter F. Adams, TB:73:II-16-483
Stability, Summary Report, A. Carpena, TB:73:II-16-605
Stability, Summary Report, Boris Bresler, TB:73:III-23-631
Stability, Theme Report, George Winter, TB:73:II-16-409
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
Standard Bank Centre (Johannesburg S.A.), Hentrich - Petschnigg & Partner, TB:73:C-P-446
Standard Oil of Indiana Building in Chicago, E. Alfred Picardi, TB:73:C-P-244
Standard Oil of N.J., Harrison & Abramovitz, TB:73:C-P-431
Standards for Steel Construction in the United States, State-of-Art Report 1, William A. Milek, Jr., TB:73:II-13-13
State Office Building, Dalton, Dalton, Little & Newport, TB:73:C-P-434
Steel Construction, State-of-Art Report 5A, K. D. Cunningham, TB:73:Ia-4-753
Steel Construction, State-of-Art Report 5B, E. E.F. Taylor, TB:73:Ia-4-767
Stiffening Effect of Light Cladding, State-of-Art Report 4A, E. R. Bryan and J. M. Davies, TB:73:II-17-643
Stiffness and Crack Control, Summary, J. Ferry Borges, TB:73:III-24-727
Stiffness and Crack Control, Theme Report, Paul Weidlinger, TB:73:III-24-639
Stiffness of Reinforced Concrete Columns in Biaxial Bending, Hans Gesund and Charles E. Vandenvelde, TB:73:III-22-455
Stiffness Related to Nonstructural Elements, Frank Newby, TB:73:Ia-12-1141
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, Stefan Soretz and Helmut Holzenbein, TB:73:III-24-701
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, William E. Greene, Jr., TB:73:Ib-5-35
Stock Exchange Building, Vincent G. Kling and Partners, TB:73:C-P-372
Strength Factors for Composite Members, D. E. Allen, TB:73:III-26-940
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, Francisco Robles, TB:73:III-26-907
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, Jacob Gluck and Mordechai Krauss, ST10:Oct 73:2143:10089
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Structural Design of Masonry Buildings, State-of-Art Report 4, R. J. M. Sutherland, TB:73:III-27-1035
Structural Design of Masonry Buildings, Walter L. Dickey, TB:73:III-27-1057

Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, Theodore R. Higgins, TB:73:II-1
Structural Safety and Probabilistic Methods, Theme Report, C. Allin Cornell, TB:73:Ib-10-911
Structural Safety and Probabilistic Methods, Summary Report, Luis Esteva, TB:73:Ib-10-1043
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, Konstant E. Bruinette, TB:73:III-20-87
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Structural Systems for Very Tall Buildings, Hannskarl Bandel, TB:73:Ia-3-627
Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, Jiri Kozak, TB:73:Ia-3-537
Structural Systems, Summary Report -- Part I, Walter P. Moore, Jr., TB:73:Ia-3-647
Structural Systems, Summary Report -- Part II, Friedrich K. Reinitzhuber, TB:73:Ia-3-651
Structural System- Standard Oil of Indiana Building, E. Alfred Picardi, ST4:Apr 73:605:9642
Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Surface Bonded Masonry Construction, Robert J. Young, TB:73:III-27-1099
Survey of Fire and Live Loads, Richard N. Wright, TB:73:Ib-5-128
Sway in Structures, Maxwell G. Lay, TB:73:II-16-590
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, John P. Eberhard, TB:73:Ia-1-133
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, Kenneth F. Reinschmidt, TB:73:Ia-1-147
Tall Building Current Research Surveys, Glenn P. Rentschler and Wai F. Chen, TB:73:C-AC11-55
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Tall Buildings Bibliography, Gerard F. Fox, TB:73:C-AC10-39
Tall Buildings: Computerized Bibliography, Committee on Bibliography, TB:73:C-AC10-47
Tall Buildings, Conference Summary, Duiliu Sfintesco, TB:73:C-505
Tall Buildings Elastically Coupled, Ramiro Sofronie, TB:73:Ia-3-637
Tall Buildings in Antiquity, Douglas D. Feaver, TB:73:Ia-1-251
Tall Buildings in Australia -- Construction Trends, L. U. Simon, TB:73:Ia-4-793
Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
Tall Buildings: Major Characteristics, State-of-Art Report 1, E. Ozer, N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93
Tall Buildings: Preliminary Bibliography, Committee on Bibliography, TB:73:C-AC10-41
Tall Buildings: Urban Planning Factors, Edgardo Contini, Preprint No.2066, Oct 73
Team Effort, Robert J. Young, TB:73:C-DM-215
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213

Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213

Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, Julian Karp, TB:73:III-25-793
Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97
Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623
Theme Report: Committee on Tall Building Research, Ivan M. Viest and Wai F. Chen, TB:73:C-AC11-53
Theme Report, Committee on the Survey of Tall Buildings, Neal FitzSimons, TB:73:C-AC14-87
Thickness Effects on Creep, Giorgio Macchi, TB:73:III-25-829
Three-Dimensional Analysis, Bernardo J. Deschapelles, TB:73:III-24-725
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Thyssenhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-448
Toronto-Dominion Center, M. I. Gilmore, TB:73:C-P-301
Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298
Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463
Tour Apogee, Skidmore, Owings & Merrill, TB:73:C-P-486
Toward A Socio-Technology of High Rise Buildings, George Bugliarello and Harold Simon, TB:73:Ia-1-270
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, David G. Elms, TB:73:C-AC31-167
Towards Risk-Based Design and Performance Criteria, Alfredo H.-S. Ang, TB:73:Ib-10-1007
Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
Transportation Center, Vincent G. Kling and Partners, TB:73:C-P-452
Ultimate Deformation of Reinforced Concrete, Minoru Yamada, TB:73:III-22-467
Uncertainties in Elastic Design for Seismic Motions, Alberto Castellani, TB:73:II-14-229
Unileverhaus, Hentrich - Petschnigg & Partner, TB:73:C-P-450
Union Bank, Welton Becket and Associates, TB:73:C-P-326
United California Bank, Ormond Robert Berry, TB:73:C-P-251
United States Steel Corporation Building, Harrison & Abramovitz, TB:73:C-P-432
University of Delaware Dormitories, Charles Luckman Associates, TB:73:C-P-360
Unusual Solutions, Anton Tedesko, TB:73:Ia-4-807
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
The Use of Lightweight Alloys in Tall Buildings, Robert J. Brungraber, TB:73:Ia-3-623
Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643
Valley Center, Welton Becket and Associates, TB:73:C-P-318
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755
Vertical Transportation, State-of-Art Report 4, Calvin L. Kort, TB:73:Ia-2-341
Vertical Wall Joints, M. Pommeret, TB:73:III-21-277
Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667
The Wainwright Building, John D. Randall, TB:73:C-P-352
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603
Welcoming Remarks at Tall Buildings Conference, Albert C. Zettlemoyer, Vice President and Provost, Lehigh University, TB:73:C-25
Welcoming Remarks at the Tall Buildings Conference, Oscar S. Bray, President, ASCE, TB:73:C-27
Welcoming Remarks at the Tall Buildings Conference, Maurice Cosandey, President, IABSE, TB:73:C-29

Welcoming Remarks at the Tall Buildings Conference, Raymond Bisplinghoff, Deputy Director, NSF, TB:73:C-31
Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851
Westchester County Courthouse, Welton Becket and Associates, TB:73:C-P-302
What Safety Margin is Necessary in a Structure?, F. K. Lightenberg, TB:73:Ib-10-1032
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335
Wind Spectra and Alongwind Structural Response, Emil Simiu, Preprint No.2086, Oct 73
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441
100 Pine Street, Hertzka & Knowles, TB:73:C-P-394
200 West Monroe Building, Welton Becket and Associates, TB:73:C-P-306
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73:C-P-282

Tanker Ships
Very Large Graving Docks, Jay J. Hassani, Preprint No.1938, Apr 73

Tanks (Containers)
Analysis and Stability of Floating Roofs, Gregory C. Mitchell, EM5:Oct 73:1037:10101
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296
Concrete Oil Storage Tank to Rest in North Sea, Ben C. Gerwick, Jr. and Eivind Hognestad, CE:Aug 73:81
Pressure-Stabilized Drop-Shaped Tanks, John W. Leonard, TN: EM10:Oct 73:1110:10041
Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3:June 73:347:9820

Tape Corrections
Serviceability Factors, State-of-Art Report 5, J. Perchat, TB:73:III-26-923

Taxes
Beltway and Tax Base Impacts, Floyd I. Thiel, UP1:Mar 73:105:9619
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
TR:138:510
Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991

T Beams
Concrete T-Beams Subject to Combined Loading, Thomas G. Barton and D. Wayne Kirk, ST4:Apr 73:687:9655

Technical Societies
Professionalism in Construction, Walter L. Meyer, PP2:Apr 73:205:9656

Technical Writing
Clear Communication--Key to Professional Development, M. D. Morris, PP1:Jan 72:77:8659
TR:138:131

Technicians
The Engineering Technician: An Underutilized Resource, Ronald P. Shumate, CE:Feb 72:64
TR:138:98

Technology
Anti-Technology--The New Myth, Samuel C. Florman, CE:Jan 72:68
Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
TR:138:53
Engineering and Today's Social Problems, Donald C. Slichter, CE:Mar 72:64
Dsc: Charles W. Griffin, Jr., CE:May 72:40; Daniel B. Halton, CE:May 72:40; Ray R. Davis, CE:July 72:77; Michael A. Murphy, CE:Aug 72:64; Ernest T. Ianni, CE:Sept 72:61
TR:138:147
In Defense of Dubos and Ellul, Kim de Rubertis, CE:Dec 72:51
TR:138:534
Technology Assessment - What It Means to the Civil Engineer, Gabor Strasser, PP1:Jan 73:111:9512

Tees
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72:2507:9348
TR:138:547
Energy Losses at 90° Pipe Junctions, H. Ito and K. Imai, HY9:Sept 73:1353:10022

Telecommunication
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
TR:138:307

Television
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213

Television Interference
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213

Television Systems
Applications of Extraterrestrial Surveying and Mapping, Robert B. McEwen and David A. Tyler, SU2:Nov 72:201:9383
TR:138:604
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061

Temperature
Barometric Leveling Analysis, James D. Gruendler, Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
TR:138:313
Behavior of Structure under Fire, State-of-Art Report 2, H. Ehm, TB:73:Ib-8-491
Buckling of Steel Columns at Elevated Temperatures, Charles G. Culver, Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
TR:138:563
Cooling Water Density Wedges in Streams, Edward M. Polk, Jr., Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
TR:138:37
Creep of Concrete at Elevated Temperatures, Zdenek P. Bazant and Spencer T. Wu, Preprint No.2110, Oct 73
Creep, Shrinkage and Temperature Effects, Theme Report, Mark Fintel, TB:73:III-25-741
Creep, Shrinkage and Temperature Effects, Summary Report, John Rankine, TB:73:III-25-831
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
TR:138:303

The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, E. H. Rutter, RM14:73:753
Elastic Analysis and Design, Summary Report, Leo Finzi, TB:73:II-14-247
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421
Factors Affecting Ammonia Removal by Clinoptilolite, James R. McLaren and Grahame J. Farquhar, EE4:Aug 73:429:9901
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB:73:Ib-8-475
Fire Resistance of Unprotected Steel Columns, W. W. Stanzak and T. T. Lie, ST5:May 73:837:9719
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Gravity Loads and Temperature Effects, Summary Report, D. E. Allen, TB:73:Ib-5-145
Gravity Loads and Temperature Effects, Theme Report, Raymond C. Reese, TB:73:Ib-5-5
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, Eugene P. Holland, TB:73:III-25-805
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909:10208
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
TR:138:569
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5:May 73:729:9730
Problems in Analysis, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-131
Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953
TR:138:305
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332
Temperature Effects in High-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY12:Dec 72:2191:9456
TR:138:597
Temperature Effects in Low-Transport, Flat-Bed Flows, Brent D. Taylor and Vito A. Vanoni, HY8:Aug 72:1427:9105
TR:138:412
Temperature Loads, State-of-Art Report 6, Lin Y. Huang, TB:73:Ib-5-97
Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
TR:138:234
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, Frank A. Blakey and John L. Heiman, TB:73:III-25-775
Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
TR:138:148

Temperature Control
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
TR:138:405

Temperature Distribution
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35

Temperature Gradients
Creep of Concrete at Elevated Temperatures, Zdenek P. Bazant and Spencer T. Wu, Preprint No.2110, Oct 73
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475

Temperature Rise
Creep of Concrete at Elevated Temperatures, Zdenek P. Bazant and Spencer T. Wu, Preprint No.2110, Oct 73

Tendons
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
TR:138:204

Tennessee Valley Authority
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3:July 72:373:9029
TR:138:370
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221

Tensile Properties
Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Tensile Strength
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
TR:138:253

Tensile Stress
The Relation of Mineralogy and Microstructure to the Morphology and Trajectory of Rock Fractures Resulting from Dynamic Tensile Stress -- Abstract, S. Sriruang and B. Hamil, RM14:73:750
Tensile and Compressive Cyclic Stresses in Rock -- Abstract, Bezalel C. Haimson, C. M. Kim and T. M. Tharp, RM14:73:748

Tensiometers
Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243

Tension
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
TR:138:573
Failure of Rock Under High Rate Tensile Loads, D. A. Shockey, C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709
Shear Strength of Reinforced Concrete Members, James G. MacGregor, Preprint No.1995, Apr 73

Tensor Analysis
Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553

Tensors
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Terminal Facilities

Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analysis of Satellite Air Terminal System, Inder K. Sud and Paul Gray, TE4:Nov 73:935:10174
Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
TR:138:299
Computer-Aided Design of Urban Transit Systems, Jerry B. Schneider, Claus D. Gehner, Dennis Porter and James Clark, Preprint No.2040, July 73
Environmental Considerations Applicable to Petroleum Terminals, Billy E. Smith, Preprint No.2067, Oct 73
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
TR:138:79
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Port of San Francisco's LASH Terminal, Eugene L. Sembler, CE:Apr 73:48
Research Needs for Airport Terminal Planning by the Research Committee of the Air Transport Division, Richard Neufville, Chmn., TE4:Nov 73:863:10153
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, William J. Funge, Preprint No.2104, Oct 73
Use of Simulation in Airport Planning and Design, Dana E. Low, Preprint No.2038, July 73

Terminal Facilities (Elect)

Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
TR:138:71

Terminology

The Concept "Institution" in Water Management Usage, Norman Wengert, Preprint No.1872, Jan 73
Definitions of Surveying and Associated Terms -- Manual and Report on Engineering Practice No. 34, 1972, 205 pp.
TR:138:606
Glossary of Terms Pertaining to Structural Steel Engineering and Design, Ad Hoc Committee on Nomenclature, Administrative Committee on Metals of the Structural Division, Roland R. Graham, Jr., Chmn., ST8:Aug 71:2137:8322
TR:137:951
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM6:June 72:557:8944
TR:138:309
Subsurface Investigations for Design and Construction of Foundations of Buildings: Appendices A and B, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM8:Aug 72:771:9103
TR:138:413

Terrain

Geothermal Operating Experience at Geysers Power Plant, Paul Matthew, PO2:Nov 73:329:10127

Terzaghi Lecture

The Integrated Civil Engineering Project, T. William Lambe, SM6:June 72:531:8991
TR:138:337

Test Equipment

A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73
TR:138:63

Test Machines

A Simple Stiff Machine for Testing Rock in Compression, William Hustrulid and Franklin Robinson, RM14:73:61

Test Procedures

Analytical and Experimental Methods in Composite Mechanics, James M. Whitney, ST1:Jan 73:113:9477
Strength Properties of Chemically Solidified Soils, James Warner, SM11:Nov 72:1163:9332
TR:138:503

Tests

At-Stream-Velocity Pumping Sediment Sampling System, James P. Bennett, HY6:June 73:873:9801
Auburn Dam -- World's Longest Arch Dam, Alfred T. Lewis, PO2:Oct 72:293:9243
TR:138:445
Bearing Capacity of Footings in Plane Strain, Hon-Yim Ko and Luther W. Davidson, SM1:Jan 73:1:9496
Bearing Strength of Concrete--Geometric Variations, Sanat K. Niyogi, ST7:July 73:1471:9853
Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
TR:138:2
Behavior and Design of Shingle Joints, Edward H. Power and John W. Fisher, ST9:Sept 72:1923:9200
TR:138:454
Bituminous Blanket for Dike, F. P. Robertson and Johannes Lehnert, CE:Dec 72:54
TR:138:537
British Column Design, Allan R. Gent, TB:73:II-16-545
Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141
Correlation of Test Results with Theoretical Analysis for Plastic Structures, Timothy J. Fowler, Preprint No.1955, Apr 73
Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73
Durability of Cement Concrete in Sulfate Environment, P. K. Mehta and Robert B. Williamson, Preprint No.2100, Oct 73
Earthquake Loading Response, Theme Report, Kiyoshi Muto, TB:73:Ib-6-151
Earthquake Research Applied to Slope Stability, William A. Wahler, CO1:July 73:1:9837
Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
TR:138:233
Effect of Creep in Slender Columns, Neil Jackson, TB:73:III-23-625
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, Erol Yarimci, TB:73:II-16-553
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, Peter Gergely and George Winter, ST10:Oct 72:2165:9236
TR:138:473
Experimental Study of Frictional Properties of Faults, F. A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Experiments on Laterally Loaded Steel Beam-Columns, Gordon W. English and Peter F. Adams, ST7:July 73:1457:9851
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
TR:138:572
Failure Tests of Rectangular Model Steel Box Girders, Joseph A. Corrado and Ben T. Yen, ST7:July 73:1439:9854

Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855
  TR:138:225
Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
  TR:138:205
Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, George G. Goble, William D. Kovacs and Frank Rausche, PES:73:III-3
Field Quality Control Test for Wetting Brick in Masonry Construction, James T. Houston and Clayford T. Grimm, CO1:July 73:5:9839
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB: 73:Ib-8-475
Houston Infiltration Abatement Program, Edward D. Munson, EE5:Oct 73:729:10061
Human Perception Thresholds of Horizontal Motion, Peter W. Chen and Leslie E. Robertson, ST8:Aug 72:1681:9142
  TR:138:397
Inelastic Multistory Frame Buckling, Bernard M. McNamee and Le-Wu Lu, ST7:July 72:1613:9062
  TR:138:368
Inelastic Tests Of Repaired Concrete Connections, William H. Townsend, Duane L.N. Lee and Robert D. Hanson, Preprint No.2010, Apr 73
Inspection Practices, State-of-Art Report 7, F. Robert Preece, TB:73:Ib-9-867
Interactions Between Circulation and Density Stratification, Enzo O. Macagno, ISSF:Aug 72:345
Investigation of Spherical Shell Foundation, A. K. Sharma, TN: SM6:June 73:489:9815
Laboratory Simulation of Mine Pillar Behavior, F. Mello Mendes and C. D. Da Gama, RM14:73:107
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929
Large Diameter Pipe Under Combined Loading, Jack G. Bouwkamp and R. M. Stephen, TE3:Aug 73: 521:9907
Multiphase Health Screening Facility Design, Paul R. DeCicco, PP4:Oct 72:707:9299
  TR:138:593
New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2: May 73:431:9688
Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73: 485:10179
Plastic Behavior of Hollow Structural Sections, Robert M. Korol and John Hudoba, ST5:May 72: 1007:8872
  TR:138:230
Precast Concrete Piles, State-of-Art Report 4B, Bengt H. Fellenius, TB:73:Ia-11-941
Predicted Pullout Strength of Sheet-Piling Interlocks, John E. Bower, SM10:Oct 73:765:10077
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489
Prestressed Concrete Sections with Seismic Loading, Roger W.G. Blakeley and Robert Park, ST8:Aug 73:1717:9906
Pumping an Artesian Source for Water Table Control, Eugene J. Doering and Leo C. Benz, IR2: June 72:275:8964
  TR:138:344
Reaeration Experiments with Microorganisms, Thomas Micka, Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
  TR:138:99
Residual Stresses in Rock, J. E. Russel and E. R. Hoskins, RM14:73:1
Shear Strength of Continuous Plates, M. Daniel Vanderbilt, ST5:May 72:961:8876
  TR:138:237
Shear Strength of Large Beams, Howard P.J. Taylor, ST11:Nov 72:2473:9329
  TR:138:533
Simulated Earthquake Tests of R/C Frames, Shunsuke Otani and Mete A. Sozen, Preprint No.1976, Apr 73
Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729: 8544
  TR:138:35
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405: 10169
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
  TR:138:532
Strength of Fiber-Reinforced Concrete, Jitendra N. Kar and Anil K. Pal, ST5:May 72:1053:8909
  TR:138:253
Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, William F. Swiger, Chmn., SM6:June 72:557:8944
  TR:138:309
Summary Report of Questionnaire on Construction Inspection, by the Task Committee on Inspection of the Construction Division, Joseph Goldbloom, Chmn., CO2:Sept 72:219:9192
  TR:138:524
Sustained and Cyclic Loading of Concrete Beams, George S. McClure, Jr., Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, Jules Cohen, TB:73:Ia-1-213
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867
Tests on Beams with Reinforced Web Openings, Peter B. Cooper and Robert R. Snell, ST3:Mar 72: 611:8791
  TR:138:189
Thickness Effects on Creep, Giorgio Macchi, TB:73: III-25-829
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
  TR:138:179
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
  TR:138:467
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF: Aug 72:251
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
  TR:138:431
Use of the Finite Element Method in Analysis of Soil-Structure Interaction, James M. Duncan, PES: 73:III-265
Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8: Aug 73:1797:9911
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441
The 747 Fatigue and Fail Safe Testing, Max M. Spencer, Preprint No.1992, Apr 73

81-ft Model of Prestressed Bridge, CE:Oct 72:83
TR:138:477

Texas

Centralized Treatment of Industrial Wastewaters, Charles A. Monaghan and Don Simmons, CE:June 73:85
Engineering Management for the Dallas/Fort Worth Airport, Gerald T. McCarthy, ASC73:Mar 73:165
A First- Dallas Bridge has Post-Tensioned Concrete Deck, Richard H. Rawles, Jr., CE:Apr 73:74
Dsc: Joel Rosenblatt, CE:July 73:22
Friction Overlay Improves Runway Skid Resistance, Michael P. Jones, CE:Mar 73:45
Dsc: A. G. Delong, CE:June 73:24
Highway Access for Dallas-Fort Worth Airport, Billy R. Rogers, ASC73:Mar 73:95
Hurricane Barrier Environmental Planning in Texas, Sidney H. Tanner and Edward J. Pullen, WW4:Nov 73:459:10171
Land Use Planning, Henry L. Newman, ASC73:Mar 73:87
Lavon Dam Modification, Garland E. Young, Preprint No.1923, Apr 73
Mississippi River Water for Texas, Ottoniel Arguello and Raphael G. Kazmann, Preprint No.1867, Jan 73
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212
New Construction Equipment and Techniques, Bruce B. Cloud, ASC73:Mar 73:181
One Shell Plaza, Skidmore, Owings & Merrill, TB:73:C-P-488
Optimal Water Quality Management for Houston Ship Channel, Almond J. Hays, Jr. and Earnest F. Gloyna, SA1:Feb 72:195:8715
TR:138:200
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
Dsc: Dean O. Chadwick, CE:Nov 73:38
Why Regional Airports, Jack D. Downey, ASC73:Mar 73:153
2001 Bryan Street Tower, Neuhaus & Taylor, TB:73:C-P-282

Thailand

Capacity-Feedback Relationship for Port of Bangkok, Donald R. Drew, Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
TR:138:441
Development of Bottom Panels in River Training, Maurice Remillieux, WW2:May 72:151:8881
TR:138:300
Load Tests on Small Foundations in Soft Clay, Edward W. Brand, Chai Muktabhant and Anan Taechathummarak, PES:72:I-903

Thawing

Infiltration and Landfill Behavior, Frank A. Rovers and Grahame J. Farquhar, EE5:Oct 73:671:10047
Settlement of Pipeline on Thawing Permafrost, Andrew C. Palmer, TE3:Aug 72:477:9090
TR:138:276

Thermal Conductivity

Hydraulic Roughness of Ice Covers, Peter Larsen, HY1:Jan 73:111:9498
Ripples on Underside of River Ice Covers, George D. Ashton and John F. Kennedy, HY9:Sept 72:1603:9191
TR:138:470

Thermal Degradation

A Study on a New Concept of Thermal Hard Rock Crushing, K. Thirumalai and J. B. Cheung, RM14:73:527

Thermal Diffusion

Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145

Thermal Energy

Thermechanized Mining System at White Pine, C. C. Hanninen and J. W. Sipola, RM14:73:623

Thermal Fatigue

Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943

Thermal Gradient

Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259

Thermal Pollution

The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
TR:138:92
Environmental Impact and Hydraulic Structures -- Current and Predicted, Danny L. King, Glenn R. Drummond and David W. McDougall, Preprint No.1913, Jan 73
Evaluating Water Surface Heat Exchange Coefficients, Peter D. Hindley and Russell M. Miner, HY8:Aug 72:1411:9118
TR:138:421
Generalized Stream Temperature Analysis System, Daniel P. Bauer, Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167
Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241
TR:138:392
Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
TR:138:407
Legal Aspects of Thermal Discharges, Angel J. Martin, Preprint No.2098, Oct 73
Oxygen Sag Curve with Thermal Overload, Krishnaswamingar Keshavan, G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145

Thermal Power Plants

City of St. Louis-Union Electric Company Process Solid Waste as a Boiler Fuel, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, Preprint No.2114, Oct 73
Environmental Aspects of Fossil Fuel Power Plant Solid Waste Disposal, Anthony M. Di Gioia, James E. Niece and Robert P. Hayden, Preprint No.2116, Oct 73
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Hydraulic Model Study for Big Stone Plant -- Unit 1 Cooling Pond Baffle, Fred H. Wend and James F. Ruff, Preprint No.2094, Oct 73
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, V. M. Ljatkher, ISSF:Aug 72:299
The Impact of Urban Planning on Electric Utilities, Alfred R. Golze, Preprint No.1903, Jan 73
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, Borislav V. Georgiev and Evelin Monev, ISSF:Aug 72:519
Model Versus Field Data on Thermal Plumes from Power Stations, L. C. Neale and George E. Hecker, ISSF:Aug 72:399

Nonlinear Dynamic Analysis of Cooling Tower, Chang-hua Yeh, PO1:June 72:49:8983
TR:138:228
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF: Aug 72:371
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, J. B. Bryce and R. V. Elliott, ISSF:Aug 72:145

Thermal Shock
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
TR:138:569
A Study on a New Concept of Thermal Hard Rock Crushing, K. Thirumalai and J. B. Cheung, RM14: 73:527
Thermal Fracturing of Hard Crystalline Rock -- Abstract, P. J. Lauriello, RM14:73:751

Thermal Stratification
The Hydrodynamic Interaction of Thermal Stratification and Reservoir Water Quality, Mark Markovsky, Preprint No.1893, Jan 73
Mixing Method of Stratified Water Layer in Reservoirs, Takeshi Ito, ISSF:Aug 72:569
Model Versus Field Data on Thermal Plumes from Power Stations, L. C. Neale and George E. Hecker, ISSF:Aug 72:399
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65: 8984
TR:138:255
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5: May 73:729:9730
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, Akira Wada, ISSF:Aug 72:451
Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
TR:138:234
Thermal Stratification due to Heated Discharges, Donald R.F. Harleman, ISSF:Aug 72:35
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, Yoshiaki Iwasa and Kazuya Inoue, ISSF:Aug 72: 237
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433

Thermal Stress
Steel Column Failure Under Thermal Gradients, Paul J. Ossenbruggen, Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681

Thermoclines
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, T. R. Sundaram, ISSF:Aug 72:683
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627

Thermoelectric Power Generation
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
TR:138:571
Hydrothermal Analysis by Finite Element Method, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
TR:138:559
Positive Points on Electric Power, George R. Higgins, PP1:Jan 72:65:8666
TR:138:204
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
TR:138:364
Surface Jet Model for Heated Discharges, Louis H. Motz and Barry A. Benedict, HY1:Jan 72:181:8669
TR:138:136
Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150

Thermoluminescence
Strain Energy Build-Up in Fatigue Cycling, Gabrielle Douglas and David J. McDougall, RM14:73:121

Thermoplastic Recording
Thermo-Plastic Materials With Memory, J. Tinsley Oden and Dev R. Bhandari, EM1:Feb 73:131:9554

Thickness
Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698
TR:138:25
Thickness Effects on Creep, Giorgio Macchi, TB:73: III-25-829

Thickness Ratio
Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348
TR:138:547
Large Deflection of Shallow Paraboloid Shells, Neng-Ming Wang, Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929

Thin Plates
Large Deflection of Elastic Plates Under Patch Loading, Bijan Aalami, ST11:Nov 72:2567:9359
TR:138:559

Thin Shell Structures
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, William C. Schnobrich, ST7:July 72: 1575:9052
TR:138:359
Use of Thin Shells for Tall Buildings, Jacques Nasser, TB:73:Ia-3-643

Thin-Wall Structures
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739: 9409
TR:138:572
Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, Zdenek P. Bazant and Mahjoub El Nimeiri, EM6:Dec 73:1259:10247

Three-Dimensional
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, Miguel Carlos Stamato, TB:73:III-24-683
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193

Thunderstorms
Thunderstorm Runoff in Southeastern Arizona, Herbert B. Osborn and Emmett M. Laursen, HY7: July 73:1129:9871

Tidal Currents
Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927
Oil Booms in Tidal Currents, Ralph H. Cross and David P. Hoult, WW1:Feb 72:25:8719
TR:138:192
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509

Tidal Effects
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
TR:138:445

Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122

Tidal Energy

Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
TR:138:29

Tidal Power Generation

Integration Of Pumped-Storage With Tidal Power, Thomas L. Shaw and Geoffrey R. Thorpe, PO1:Jan 71:159:7810
TR:138:29
Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40
Dsc: Orville T. Magoon, CE:Mar 73:87; G. V. Eckenfelder, J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45
TR:138:531

Tidal Power Plants

Pumped Storage and Tidal Power in Energy Systems, Charles K. Haswell, Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
TR:138:603
Tidal Energy from the Bay of Fundy, Thomas L. Shaw and J. van den Heuvel, CE:Dec 72:40
Dsc: Orville T. Magoon, CE:Mar 73:87; G. V. Eckenfelder, J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45
TR:138:531

Tidal Waters

Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927
Minimum Length of Salt Intrusion in Estuaries, Ben P. Rigter, HY9:Sept 73:1475:10010
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
TR:138:276

Tides

The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979
Characteristics and Behavior of Pacific Coast Tidal Inlets, Joe W. Johnson, WW3:Aug 73:325:9927
Deltaic Activity of Bhagirathi-Hooghly River System, Sunil K. Bhattacharya, WW1:Feb 73:69:9538
Elevation Changes Due to Tides, Long Beach, Calif., Dale S. Kunitomi, SU2:Nov 72:137:9315
TR:138:445
Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
TR:138:209
Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
TR:138:177
Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224

Tidewater

Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
TR:138:209

Tie Rods

Earth Tiebacks Support Excavations 112 Ft. Deep, James C. Nelson, CE:Nov 73:40

Ties

Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
TR:138:573
Joints, Precast Panel Buildings, State-of-Art Report 2, Bohdan Lewicki and Adrian Pauw, TB:73:III-21-171
Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259
Soil-Structure Interaction, Ralph B. Peck, PES:73:II-145
Soil-Structure Interaction -- Reporter's Remarks, Gerald W. Clough, PES:73:III-247
Tensile Ties in Precast Concrete Systems, Adrian Pauw, TB:73:III-23-623
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Tile Drainage

Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737
TR:138:138

Tile Drains

Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459:9167
TR:138:411
Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Tiles

Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183
TR:138:460
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577

Timber Construction

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599:8786
TR:138:181
Lateral Stability of Wood Beam-and-Deck Systems, John J. Zahn, ST7:July 73:1391:9829
Notes on Trees and Tree Planting, Hans F. Bell, CE:July 73:77
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

Timbers

Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73:1205:9788

Time

Consolidation of a Layer Under a Strip Load, John T. Christian, Jan Willem Boehmer and Philippe P. Martin, SM7:July 72:693:9030
TR:138:374
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73:75:9484

Time and Motion Studies

Analysis of Time-Lapse Construction Films, Howard B. Sprinkle, CO2:Sept 72:183:9190
TR:138:502

Time Dependence

Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71:1183:8372
TR:138:19
Finite Element Analysis of Rock-Salt Pillar Models, Robert Lee Thoms, Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393

Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, Margaret Law and P. Arnault, TB: 73:Ib-8-475

Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
TR:138:339

Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731

Slender Concrete Columns Under Sustained Load, Brij B. Goyal and Neil Jackson, ST11:Nov 71:2729: 8544
TR:138:35

Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
TR:138:532

Studying Time-Dependent Effects in Failed Rock, John A. Hudson and Edwin T. Brown, RM14:73:25

Time-Dependent Rock Behavior in Uniaxial Compression, W. R. Wawersik, RM14:73:85

Time of Concentration

Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
TR:138:50

Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849
TR:138:333

Time Series Analysis

Stochastic Generation of Rainfall, Kazimierz Adamowski and Anthony F. Smith, HY11:Nov 72: 1935:9353
TR:138:548

Time Sharing

Project Planning and Control by Time-Sharing Computer, Norman L. Scott and Edward L. Murphree, CO1:Mar 72:37:8758
TR:138:184

Tires

Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
TR:138:505

Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
Dsc: Larry Madsen, CE:Aug 72:54
TR:138:226

Toilet Facilities

Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098

Tolerances (Mechanics)

Dimensional Tolerance - Concrete, State-of-Art Report 5, Philip W. Birkeland and Leonard J. Westhoff, TB:73:Ib-9-845

Dimensional Tolerance in Concrete, Anthony E. Fiorato and Sven Sahlin, TB:73:Ib-9-893

Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, Kazuo Tomonaga, TB:73:Ib-9-833

Quality Control Criteria, Summary Report, E. James White, Robert L'Hermite and I. Gramolin, TB:73: Ib-9-901

Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, Sansei Miki, Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817

Walt Disney World Monorail Designed for Smooth Riding, Robert F. Mast and Charles W. Dolan, CE: Mar 72:48
TR:138:135

Toll Roads

Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
TR:138:440

Topography

Current Practice in Abutment and Foundation Treatment, Harris H. Burke, Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
TR:138:489

Topology

Algorithm for Matrix Bandwidth Reduction, Henry R. Grooms, ST1:Jan 72:203:8636
TR:138:88

Tornadoes

Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249

Probabilistic Treatment of Problems in Nuclear Power Plant Design, M. P. Singh, Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263

Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668

Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, Preprint No.1958, Apr 73

Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249

Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Toroids

Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, David J. McGill and Ira H. Rapp, III, TN: EM3:June 73:629:9765

Torque

Lateral-Torsion Buckling of Parabolic Arches, Frank J. Tokarz and Raghbir S. Sandhu, ST5:May 72: 1161:8922
TR:138:280

Torsion

Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233: 8643
TR:138:109

Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234

Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010
TR:138:306

Composite Beams in Torsion, Conrad P. Heins, Jr. and John T.C. Kuo, ST5:May 72:1105:8921
TR:138:275

Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968
TR:138:286

General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73: 365:9604

Lateral Buckling of Constrained Beams, Thomas G. Morrison, ST3:Mar 72:741:8793
TR:138:199

Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501

Some Design Problems of Large Box Girder Bridges, Bogdan O. Kuzmanovic, ST9:Sept 72:2059:9193
TR:138:439

Stiffness Analysis of Grids Including Warping, Robert J. Reilly, ST7:July 72:1511:9022
TR:138:333

Subassemblage Technique for Asymmetric Structures, William R. Hibbard and Peter F. Adams, ST11:Nov 73:2259:10132

Tests of Concrete Columns in Torsion, Ganpat S. Pandit and Manak B. Mawal, ST7:July 73:1409: 9850
Tests of Curved Steel-Concrete Composite Beams, James Colville, ST7:July 73:1555:9867
Torsional and Bending Behavior of Wood Beams, Abolhassan Vafai and George Pincus, ST6:June 73: 1205:9788
Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298
Torsion Analysis of Symmetric Building Structures, Alexander Coull and Bryan Stafford Smith, TN: ST1:Jan 73:229:9464
Torsion and Bending of Prestressed Concrete Beams, Lawrence H. Martin and Peter J. Wainwright, ST11:Nov 73:2229:10129
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
TR:138:382
Torsion/Flexure Interaction, Neil Jackson, TB:73:III-22-463
Torsion of Nonhomogeneous Solid, Manoon Chuaprasert and Mumtaz K. Kassir, EM4:Aug 73: 703:9948
Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12: Dec 72:2769:9453
TR:138:587
Total Interaction Method for Torsion Design, K. S. Rajagopalan, Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
TR:138:467
Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701

Torsional Strength

Behavior of Polygonal and Circular Ring Beams, German R. Gurfinkel and Arthur R. Robinson, ST6:June 73:1241:9800
Torsion of Nonprismatic Beams of Open Section, Donald R. Evick and Conrad P. Heins, Jr., ST12: Dec 72:2769:9453
TR:138:587

Torsion Shear Tests

Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
TR:138:328

Toughness

What Designers Should Know About Fracture Toughness, Arthur L. Elliott, Preprint No.1928, Apr 73

Towed Bodies

The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193

Towers

Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
TR:138:303
How Safe are Your Poles?, Joseph R. Arena, ST7: July 73:1333:9848
Stability of Guyed Towers, John E. Goldberg and John T. Gaunt, ST4:Apr 73:741:9683
Stability Study of Guyed Tower Under Ice Loads, Robert A. Williamson, ST12:Dec 73:2391:10242
Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012
Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701
Transthetics, Harold P. Hulett, PO1:June 72:103: 8989
TR:138:313
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
TR:138:142

Towing

Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
TR:138:243

Toxicity

Metal Toxicity to Sewage Organisms, Calvin P.C. Poon and Kiran L. Bhayani, SA2:Apr 71:161:8020
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73: 133:9783

Toxicology

Sewage Chlorination Versus Toxicity -- A Dilemma?, Harvey F. Collins and David G. Deaner, EE6:Dec 73:761:10190

Tracers

Hydraulic Treatment Efficiency of Waste Stabilization, Kenneth A. Mangelson and Gary Z. Watters, SA2:Apr 72:407:8849
TR:138:333
Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195: 9479
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959
TR:138:61
Surface-Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3: June 73:283:9797
Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3: June 73:347:9820
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509

Tractive Forces

Bed Load Transportation in Alluvial Channels, Satya P. Garg, Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
TR:138:2
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, HY10: Oct 73:1659:10070
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845

Traffic

Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
TR:138:346
The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
Bridge Beam Response to Simulated Traffic, Fred P. Wagner, Jr. and Kishor C. Mehta, Preprint No.1964, Apr 73
Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4: Nov 73:415:10137
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
TR:138:469
Federal Experience in TOPICS, Hugh B. Henry, TE3:Aug 72:509:9097
TR:138:292
GASP Simulation of Terminal Air Traffic System, Jason C. Yu, Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
TR:138:406
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
TR:138:54
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
TR:138:79

Management System for Campus Traffic Planning, Michael J. Quillem and Jason C. Yu, TE4:Nov 72: 769:9355
TR:138:527
On Two Means of Alleviating Rush-Hour Crowding, Charles Libove, Preprint No.2033, July 73
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Practical Traffic Considerations in Earthquake Country, Haig Ayanian, Preprint No.1942, Apr 73
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
TR:138:417
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
TR:138:440

Traffic Assignment
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73: 725:10126

Traffic Control
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
TR:138:434
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
TR:138:406
Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
TR:138:417
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
TR:138:368

Traffic Engineering
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., Walter E. Capper, Chmn., TE2: May 72:421:8918
TR:138:260
Estimation of General Aviation Air Traffic, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, Preprint No.2041, July 73
Federal Research in Urban Traffic Control, Juri Raus and Philip J. Tarnoff, TE4:Nov 72:909:9313
TR:138:434
Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
TR:138:361
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
New Concepts in Urban Parking, John C. Schoon, Preprint No.2043, July 73
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Roadway Capacity Related to Curb-Parking Maneuver, Jason C. Yu and Henry C. Van Dyke, TE3:Aug 73:467:9932
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259
Dsc, "Traffic Engineering, Theory And Practice", John M. Freiermuth, CE:Dec 73:24
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2: May 72:285:8914
TR:138:249

Traffic Regulations
Strategies for Practical Expressway Control, Allan G.R. Bullen, TE3:Aug 72:599:9140
TR:138:417

Traffic Safety
Current Methods For Improved Tire-Pavement Interaction, Bob M. Galloway and Jon A. Epps, TE4:Nov 72:915:9347
TR:138:505

Traffic Signals
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
TR:138:90

Traffic Surveys
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
TR:138:154
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
TR:138:346
Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
TR:138:234
Estimation of General Aviation Air Traffic, Kenneth A. Brewer, Stanley L. Ring and Robert L. Carstens, Preprint No.2041, July 73
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
Highway and Modal Choice Decisions, Donald A. Morin, TE1:Feb 73:145:9569
Impedance Minimization Travel Choice Process, Edward A. Beimborn, TE2:May 72:177:8882
TR:138:140
Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910
TR:138:241
Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
Review of Car-Following Theory, Wilbur E. Wilhelm, Jr. and J. W. Schmidt, TE4:Nov 73:923:10165
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4: Nov 72:799:9362
TR:138:535
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3: Aug 72:715:9124
TR:138:385

Training
ASCE Minority Programs, Gerald L. Baker, CE:Aug 73:54
Metrication Progress in the United Kingdom, Gordon Bowen, PP4:Oct 72:511:9261
TR:138:523
Technological Innovation and Hydraulic Engineering, George Bugliarello, HY5:May 72:751:8897
TR:138:278

Tramways
Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
Dsc: Larry Madsen, CE:Aug 72:54
TR:138:226

Transfer Functions
Transfer Matrix Approach to Layered Systems, Leon Y. Bahar, EM5:Oct 72:1159:9248
TR:138:479

Transferring
Technology Transfer Requirements in Engineering, Charles A. Babendreier, Preprint No.2096, Oct 73

Transient Flow
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115
Approximate Solution for Unconfined Seepage, Chandrakant S. Desai, IR1:Mar 73:71:9607
Numerical Analysis of Electro-Osmotic Flow in Soils, Roland W. Lewis and C. Humpheson, SM8:Aug 73:603:9912
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, R. Broman, SDNPF:Dec 73:151
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
TR:138:87
Transient Hydraulic Simulation of Breached Earth Dams, Danny L. Fread and Terence E. Harbaugh, HY1:Jan 73:139:9466
Transient Seepage Flow Toward Two Parallel Drains, Imre Gyuk and Gabor M. Karadi, EM1:Feb 72:211:8737
TR:138:138
Unsteady Flow to Bottom Drain in Bounded Aquifer, Raymond J. Krizek, Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807

Transient Response
Direct Integration Methods in Structural Dynamics, Robert E. Nickell, EM2:Apr 73:303:9652

Transients
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Transient Cooling Pond Behavior, Patrick J. Ryan and Donald R.F. Harleman, HYB:Aug 73:191
Transient Hydrothermal Analysis of Small Lakes, Lawrence A. Loziuk, James C. Anderson and Ted Belytschko, PO2:Nov 73:349:10150

Transient Stress
Analysis of Safety Valve Discharging Into Closed Piping System, C. H. Luk, SDNPF:Dec 73:115

Transition Flow
Difference Method for Higher-Order Equations of Flow, G. S. Rodenhuis, HY3:Mar 73:471:9628
Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71:1269:8367
TR:138:7
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897:10119

Transit Systems
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
TR:138:154
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922

Transmission Lines
Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
TR:138:50
How Safe are Your Poles?, Joseph R. Arena, ST7:July 73:1333:9848
Powerline Foundations Installed along Railroad Tracks, Roger S. Chapman, CE:Oct 72:64
TR:138:462
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353
Transthetics, Harold P. Hulett, PO1:June 72:103:8989
TR:138:313
Where, Oh Where, Is Your Right-Of-Way Line? William T. Wambach, Jr., CE:Mar 73:52
Dsc: William G.G. Blakney, CE:July 73:22
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
TR:138:142

Transmission Loss
Management of Ephemeral Stream Channels, Herbert B. Osborn and Kenneth G. Renard, IR3:Sept 73:207:10005

Transmission Towers
Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Gene M. Wilhoite, Chmn., Preprint No.2021, Apr 73
Guide for the Design of Aluminum Transmission Towers, by the Task Committee on Lightweight Alloys of the Committee on Metals of the Structural Division, Robert J. Brungraber, Chmn., ST12:Dec 72:2785:9457
TR:138:596
Joint Utilization of Rights-of-Way, Francis J. Stastny, TE2:May 72:299:8880
TR:138:130
Transmission Towers Under Torsional Loads, Albert W.G. Hanna and Richard G. Redwood, PO1:May 73:105:9701

Transpiration
Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
TR:138:580
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
TR:138:570

Transportation
Advanced Analysis of Rigid Pavements, Sue K. Wang, Michel A. Sargious and Yau Kai Cheung, TE1:Feb 72:37:8699
TR:138:36
Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
TR:138:226
Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
TR:138:87
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Analytical Estimation of Transit Access Impedances, Paul R. Rassam and Raymond H. Ellis, TE2:May 72:191:8884
TR:138:154
Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
TR:138:346
Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
TR:138:330
Baltimore Plans Highways for Minimum Noise, Grant S. Anderson, Frederick Gottemoeller and Daniel G. Page, CE:Sept 72:74
TR:138:410
BART Rail Transit System Begins Operations, CE:Nov 72:63
Dsc: R. Leo Burditt, CE:July 73:22
TR:138:505
Basis for Simulation Model of Container Terminal, Fraser Dunford, TE3:Aug 72:607:9099
TR:138:299
Benefit Measurements of Highway Electronic Route Guidance, Salvatore J. Bellomo and George K. Young, Jr., TE1:Feb 72:51:8742
TR:138:90

The Bicycle Anarchy, James L. Konski, TE4:Nov 73:757:10120
The City Planning Environment and Tall Buildings, Calvin S. Hamilton, Preprint No.2044, July 73
Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
TR:138:307
Community Values in Transport Network Evaluation, Dan G. Haney and George E. Klein, TE4:Nov 72:823:9319
TR:138:449
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
Cracking Mechanism of Flexible Pavements, Jacob Uzan, Moshe Livneh and Elisha Shklarsky, TE1:Feb 72:17:8695
TR:138:16
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
TR:138:469
Deep-Plow Lime Stabilization for Pavement Construction, Marshall R. Thompson, TE2:May 72:311:8858
TR:138:107
Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4:Nov 72:807:9320
TR:138:456
Dynamic Response of Model Pavement Structure, Stephen F. Brown and David I. Bush, TE4:Nov 72:1005:9363
TR:138:541
Effect of Load Placement on Rigid Pavement Behavior, Harvey J. Treybig, William Ronald Hudson and B. Frank McCullough, TE4:Nov 71:681:8543
TR:138:6
Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475:8761
TR:138:178
Energy-Intensiveness of Transportation, Eric Hirst, TE1:Feb 73:111:9558
Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
TR:138:71
Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
TR:138:518
Expressway Rapid Transit, George Krambles, TE4:Nov 72:1023:9388
TR:138:590
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., Frank E. Lo Presti, CE:Nov 72:57
TR:138:499
Flexible Pavement Evaluation Using Hertz Theory, Gdalyah Wiseman, TE3:Aug 73:449:9921
Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
TR:138:361
Goods Movement on Urban Transit Systems, John J. Fruin, TE3:Aug 72:617:9139
TR:138:411
Göthenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
TR:138:406
Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375
Houston Airport's Low Cost People Mover, Hal K. Puckett and James C. Williamson, Preprint No.2047, July 73
Impact of Environmental Controls on Highways, Wm. Campbell Graeub, Albert A. Grant and Robley Winfrey, TE2:May 72:263:8906
TR:138:219
Instrumentation Applied to Slope Stability Problems, Stanley D. Wilson and David E. Hilts, TE3:Aug 72:563:9101
TR:138:316
Integrated Measurement Framework for Transportation Planning, George C. Wickstrom, TE2:May 72:275:8910
TR:138:241
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Investing in Regional Highway Networks, Leon D. Chapman, TE2:May 73:353:9742
Keyed Joint Performance Under Heavy Loaded Aircraft, John L. Rice, TE4:Nov 72:931:9376
TR:138:561
Let The Spoken For Be Heard, CE:Sept 73:118
Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
List of Information Sources for Airport Planners, Robert K. Palmer, TE1:Feb 72:131:8721
TR:138:65
Local Rural Road Costs and Economies of Scale, William D. Berg, TE4:Nov 72:881:9340
TR:138:478
Location Model for Parking Facilities, Adib K. Kanafani, TE1:Feb 72:117:8705
TR:138:54
Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
TR:138:79
Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
TR:138:339
Michigan Transportation in the Seventies, William C. Taylor, TE4:Nov 72:847:9350
TR:138:510
Modal Choice and Public Policy in Transportation,, Herbert S. Levinson, PP1:Jan 73:65:9514
Modification of Major Corridor Location Criteria, George D. Barnes, TE1:Feb 73:31:9541
Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
TR:138:285
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
TR:138:579
Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590
Novel Features on Lindenwold Line, Richard E. Pinkham, TE2:May 72:367:8892
TR:138:187
Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926
Optimizing Transportation Facility Arrangements, Jason C. Yu and Ronald K. Giguere, TE4:Nov 73:725:10126
Overview of Transportation Legislation, Richard E. Briggs, PP3:July 73:381:9883
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
TR:138:212
Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
Pipeline Transportation in the 70's, Marshall U. Bagwell, TE1:Feb 73:5:9539
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Planning for Satellite Airports, Walter Gelerman and Richard de Neufville, TE3:Aug 73:537:9951
Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
Prefabricated Highways, William Zuk, TE2:May 72:387:8895
TR:138:204
Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551
Programming Approach to Urban Transit Planning, Terry Roe and Mathew Shane, TE3:Aug 73:571:9960

Programming of Regional Highway Investments, Bruce G. Hutchinson, TE3:Aug 72:493:9087
TR:138:269
Public Attitudes Towards Transportation, W. R. Redmond, PP1:Jan 73:77:9487
Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
TR:138:170
Public Works and the Environment, George H. Andrews, TE1:Feb 73:1:9517
Quantifying the Environmental Impact of Transportation Systems, William L. Smith, Preprint No.2049, July 73
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
"Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73:59
Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE:Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73:32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34
Recent Developments in Roadside Crash Cushions, John G. Viner, TE1:Feb 72:71:8747
TR:138:99
Reexamination of Transportation Planning, Raymond H. Ellis, TE2:May 73:371:9752
Rehabilitating Chicago's Expressways, Thomas T. Morimoto, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148
Satellite Transit at Seattle-Tacoma Airport, Ralph Mason, TE4:Nov 72:953:9379
TR:138:566
Schedule Planning and Timetable Construction for Commuter Railroad Operations, Edward K. Morlok and Hugo L. Vandersypen, TE3:Aug 73:627:9922
Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Soil-Cement Bases Under Thin Bituminous Surfacing, Boniface C. Obi, TE2:May 72:167:8871
TR:138:124
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
TR:138:46
Statewide Transportation Planning, Frederick J. Wegmann and Everett C. Carter, TE2:May 73:323:9734
STOL Aircraft Flight and Landing Area Considerations, John M. Riebe, TE2:May 73:339:9743
Structural Design of Concrete Pavement by Computer, Cloyd E. Warnes, TE1:Feb 72:1:8698
TR:138:25
Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Tall Buildings: Urban Planning Factors, Edgardo Contini, Preprint No.2066, Oct 73
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4:Nov 72:799:9362
TR:138:535
Traffic Data for Concrete Pavement Design, E. Guy Robbins and Cloyd E. Warnes, TE1:Feb 73:17:9555
Dsc, "Traffic Engineering, Theory And Practice", John M. Freiermuth, CE:Dec 73:24
Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
TR:138:484
Transportation Planning and the Environment, T. Wallace Hawkes, TE3:Aug 73:499:9949
Transportation Problem Formulation and Evaluation, R. W. Woodhead and R. H. Wortman, Preprint No.2042, July 73
Transportation Research for Community Objectives, Arthur Saltzman, Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555
Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
TR:138:440
Urban Transportation, Murray A. Muspratt, TN: TE1:Feb 73:193:9529
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3:Aug 72:715:9124
TR:138:385
Vehicle-Roadway Interaction Studies by Math Model, Hayes E. Ross, Jr. and Don L. Ivey, TE2:May 72:285:8914
TR:138:249

Transportation Management

Four-Day Week and Transportation, Vincent R. Desimone, TE3:Aug 72:705:9116
TR:138:361
Statistical Decision in Forecasting Planning Data, Kumares C. Sinha, TE4:Nov 72:865:9366
TR:138:547

Transportation Models

Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
TR:138:234
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124
New Criterion for Resource Scheduling, E. M. Davies, TE4:Nov 73:741:10118
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3:Aug 72:715:9124
TR:138:385

Transport Theory

Horizontal Versus Vertical Transportation, George R. Strakosch, TB:73:Ia-2-375

Transverse Waves

Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754

Trashracks

Flow-Induced Vibrations of Trashrack Bars, J. W. Fortey and Robert F. Tiry, CE:May 72:44
TR:138:230

Travel

Forecasting Regional Travel on Regional Highway Network, Arun Chatterjee and Paul D. Cribbins, TE2:May 72:209:8885
TR:138:162
Social Factors in Health Care Systems Planning, Charles B. Notess and George C. Lee, PP1:Jan 73:59:9493

Travel Time

Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923

Treatment

Combined Sewer Overflows, Richard Field, CE:Feb 73:57

Trees

Use of Trees as Bench Marks in Expansive Clays, Robert Davis and Richard Tucker, TN: SU1:Sept 73:149:10017

Trenches
Concrete Arch Culvert Behavior-Phase 2, Raymond Eugene Davis and Alfred E. Bacher, ST11:Nov 72: 2329:9325
  TR:138:521

Triangulation
Computer Program System for Aerotriangulation, Kam W. Wong and G. Elphingstone, SU2:Nov 72: 219:9322
  TR:138:470
Modified Methods in Numerical Radial Triangulation, Paul R. Wolf and Lloyd T Bartlett, SU1:Sept 73:121:10028
Photogrammetric Surveying in Highway Programs, James E. Newman, SU2:Nov 71:297:8539
  TR:137:946
Post Block Aerial Triangulation with Height Constraint, Kunwar K. Rampal, SU1:Sept 73:79: 9976

Triaxial Compression
Experimental Study of Frictional Properties of Faults, F. A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35

Triaxial Shear
A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73
  TR:138:63

Triaxial Tests
Cubical Triaxial Tests on Cohesionless Soil, Poul V. Lade and James M. Duncan, SM10:Oct 73:793: 10057
Evaluation of Properties of Rockfill Materials, N. Dean Marschi, Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
  TR:138:160
Experimental Study of Frictional Properties of Faults, F. A. Donath, L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189
Factors Affecting Coefficient for Earth Pressure, Kamal Z. Andrawes and Mohamed A. El-Sohby, SM7:July 73:527:9863
Large Scale Triaxial Tests on Rock, Madan M. Singh and Peter J. Huck, RM14:73:35
Model Studies on Mechanics of Jointed Rock, Herbert H. Einstein and Ronald C. Hirschfeld, SM3:Mar 73:229:9610
Saturating Laboratory Samples by Back Pressure, David K. Black and Kenneth L. Lee, SM1:Jan 73: 75:9484
Time to Dissolve Air Bubbles in Drain Line, Kenneth L. Lee and David K. Black, SM2:Feb 72:181:8728
  TR:138:179

Trickle Irrigation
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
  TR:138:331
Uniform Irrigation with Low-Pressure Trickle Systems, Lloyd E. Myers and Dale A. Bucks, IR3: Sept 72:341:9175
  TR:138:436

Trickling Filters
Chlorine Disinfection in Final Settling Basins, Darrell W. Monroe and Donald C. Phillips, SA2:Apr 72: 287:8819
  TR:138:296
Design Optimization for Biological Filter Models, Harold B. Gotaas and William S. Galler, EE6:Dec 73:831:10191
Enhanced Phosphorus Removal in Trickling Filters, Harold J. Jebens and William C. Boyle, SA3:June 72:547:8974
  TR:138:399
Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
  TR:138:360
Substrate Removal Mechanism of Trickling Filters, Bruce E. Jank and W. Ronald Drynan, EE3:June 73:187:9769

Trip Length
Analysis of Passenger Delays at Airport Terminals, Sam Yagar, TE4:Nov 73:909:10152
Social Implications of Land Use and Mode Choice, Jeffrey M. Zupan, TE2:May 73:383:9750
Variations of Urban Travel Characteristics with Age, Norman Ashford and Frank M. Holloway, TE3: Aug 72:715:9124
  TR:138:385

Tropical Cyclones
Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556

Tropical Diseases
Environmental Control of Bilharzia Snails in Small Reservoirs, William R. Jobin, IR3:Sept 73:365:9994

Trucks
Computer Algorithm for Routing Oversized Trucks, Shiva K. Pant and Frederick J. Wegmann, TE1:Feb 73:151:9570
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495
Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047
  TR:138:554

Trusses
Aseismic Design of Staggered Truss Buildings, Robert D. Hanson and Glen V. Berg, Preprint No.1970, Apr 73
Automated Design of Trusses for Optimum Geometry, Garret N. Vanderplaats and Fred Moses, ST3:Mar 72:671:8795
  TR:138:202
Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178
Minimum Expected Cost Optimization, Sheng-taur Mau and Robert G. Sexsmith, ST9:Sept 72:2043: 9195
  TR:138:447
Nonlinear Elastic Truss Analysis Partitioning, N. M. Singaraj and Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
  TR:138:562
Optimal Joint Positions for Space Trusses, Pauli Pedersen, ST12:Dec 73:2459:10199
Post-Buckled Strength of Large Space-Truss, John P. Wolf, TN: ST:July 73:1708:9828
Stability of Trusses Subjected to Ponding Loads, Ta Chao, TN: ST6:June 73:1327:9767
Systems Approach to Building, James R. Cagley, CE: Apr 73:59
    Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20

Tsunamis
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
  TR:138:137

Tube Joints
Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
  TR:138:62
Punching Shear Characteristics of RHS Joints, Narsing M. Patel, William J. Graff and Ardis H. White, Preprint No.1963, Apr 73
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793

Tubes
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157

Perimetral Tube for 37-Story Steel Building, L. Agustin Mazzeo and Armin De Fries, ST6:June 72: 1255:8937
  TR:138:288
Pressurized Tubes Constrained by Rigid Collars, Furman W. Barton and Thomas H. Dawson, TN: EM3:June 73:9765
Sidesway Instability of Unbraced Tube Buildings, Lee C. Lim and Robert J. Mc Namara, TB:73:II-16-598
Strength of Square-Tube Connections Under Combined Loads, Roger L. Brockenbrough, ST12: Dec 72:2753:9425
  TR:138:581
Structural Systems, Theme Report, Leslie E. Robertson, TB:73:Ia-3-403
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
  TR:138:382
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793

Tugboats
Ocean Tug-Barge Systems, Lawrence R. Glosten, WW2:May 72:243:8868
  TR:138:243

Tunnel Construction
Pressurized-Slurry Shields Bore Submarine Tunnels, Takuya Ohira and Shunta Shiraishi, CE:May 72:55
  TR:138:248
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Tunnel Design
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Tunneling
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Tunneling (Excavation)
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Energy Required to Break Rock by Percussive Drilling, Kaarlo O. Hakalehto, RM14:73:613
Force Reduction in Excavation Devices, Carl R. Peterson, CO1:July 73:21:9845
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
  TR:138:310
Hybrid Computer Analysis of Seam Extraction -- Abstract, M. P. Hardy, S. L. Crouch and Charles Fairhurst, RM14:73:749
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117
Subsurface Freezing Used In Tunneling, Charles P. Gail, CE:May 72:37
  Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE: May 73:58
  TR:138:221
Tunnel Survey and Tunneling Machine Control, Edward W. Peterson and Peter Frobenius, SU1:Sept 73:21:10008
Vehicular Tunnels in Rock Direction for Development, Richard J. Robbins, CO2:Sept 72: 235:9173
  TR:138:379
The Viennese Subway System, Max Ellinger, TB:73: C-P-269

Tunneling Machines
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555

Tunnel Linings
Application of Epoxy Resins in Tunnel Lining Concrete Repair, Russell C. Borden and Carl E. Selander, CO2:Sept 72:161:9180
  TR:138:405
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Tunnels
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
  TR:138:46
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, James E. Wolfe, TE4:Nov 72:837:9327
  TR:138:462
Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1: Feb 73:53:9518
Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117
On Model Studies for Tunnels in Jointed Rock, Richard E. Goodman, Francois E. Heuze and Gilles J. Bureau, RM14:73:441
Qualitative Factors for Evaluating Stability, Thomas L. Neff, RM14:73:311
The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73
Stabilization of Ground at Eisenhower Tunnel Access, Kenneth Medearis, Omar S. Stemple and Jack E. Gay, CE:July 73:82
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
  TR:138:368
The Subsurface Environment: Private Property or Public Domain, William R. Walker and William E. Cox, Preprint No.2102, Oct 73

Tunnel Supports
Recent Development of New Austrian Tunneling Method, Herbert Nussbaum, CO1:July 73:115:9836

Turbidity
Environmental Protection Measures at Martis Creek Lake, California, Joseph C. Sciandrone, Preprint No.1885, Jan 73
Simulation of Impoundment Turbidity Structure, Darrell G. Fontane, Preprint No.2083, Oct 73

Turbines
Radioisotopes and Turbine Flow Measurement, Jack C. Schuster and Robert L. Hansen, PO1:June 72:1: 8959
  TR:138:61
Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405: 10169
Wallace Dam, Major H. Thompson, Jr., PO2:Oct 72: 333:9259
  TR:138:550

Turbogenerators
Turbine Generator Vibrations as Induced into a Barge Mounted Nuclear Power Plant, Robert J. McCaffery and Charles M. Johnson, Preprint No.1978, Apr 73

Turbulence
Boundary Layer Effects on Hydraulic Jump Location, Edward H. Wilson and Andrew A. Turner, HY7: July 72:1127:9007
  TR:138:341
Buoyant Jets with Three-Dimensional Trajectories, Eric Hirst, HY11:Nov 72:1999:9378
  TR:138:563
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72: 161
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
  TR:138:50
Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
  TR:138:448

Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8:Aug 72:1367:9088
TR:138:401
Experiments on Plane Couette Flow, Hans J. Leutheusser and Vincent H. Chu, HY9:Sept 71:1269:8367
TR:138:7
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897:10119
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
TR:138:50
Helical Flow Through Concentric Annulus, M. H. Abdul Khader and H. Suresh Rao, EM2:Apr 72:447:8836
TR:138:231
Lagrangian Characteristics of Surface Turbulence, Eggert Hansen, HY7:July 72:1255:9008
TR:138:346
Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275:9050
TR:138:378
Measurement of Velocity-Concentration Covariance, Raul S. McQuivey and Thomas N. Keefer, HY9:Sept 72:1625:9184
TR:138:459
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
TR:138:13
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Residential Buildings Engineered to Resist Tornadoes, Zachary Sherman, ST4:Apr 73:701:9668
Shape Effects on Resistance in Flood-Plain Channels, Chin-lien Yen and Donald E. Overton, HY1:Jan 73:219:9506
A Simple Model of Entrainment and Thermocline Erosion, Jacques C.J. Nihoul, ISSF:Aug 72:627
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, M. E. Berlyand and E. L. Genikhovich, ISSF:Aug 72:125
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
Some Properties of Turbulence in a a Stratified Shearing Flow, Robert R. Long, ISSF:Aug 72:317
Stoplog Closure - Model Prototype Correlation, Roy E. Coxon, Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562
Theoretical Analysis of Flow Past Leaf Gate, Rangaswami Narayanan, HY6:June 72:993:8942
TR:138:320
Tracer Tests of Eddy Diffusion in Field and Model, Maurice J. Crickmore, HY10:Oct 72:1737:9285
TR:138:509
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445
TR:138:579
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72:1187:9061
TR:138:386
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Turbulence in Stratified Flows, E. P. Anisimova and A. A. Speranskaya, ISSF:Aug 72:475
Turbulence in the Weakly Mixing Zone of the Interface, Toshio Iwasaki and Tetsuo Abe, ISSF:Aug 72:251
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
TR:138:404
Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
TR:138:148
Wind Shear-Turbulence and Reaeration Coefficient, Aziz F. Eloubaidy and Erich J. Plate, HY1:Jan 72:153:8651
TR:138:111

Turbulent Boundary Layer
Appearance of Unstable Buoyant Jet, Habib O. Anwar, HY7:July 72:1143:9012
TR:138:354

Turbulent Diffusion
Dispersion in Natural Streams, Mahendra K. Bansal, HY11:Nov 71:1867:8540
TR:138:50
Turbulence and Diffusion in Stratified Flows, A. S. Monin, ISSF:Aug 72:87

Turbulent Flow
Development of a Stratified Turbulent Shear Flow, E. J. Hopfinger, ISSF:Aug 72:555
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161
Drag Coefficient of Cylinders in Turbulent Flow, Stephen C. Ko and Walter H. Graf, HY5:May 72:897:8920
TR:138:305
Effect of Stream Turbulence on Heated Water Plumes (Abstract), James Weil and Hugo B. Fischer, HYB:Aug 73:189
Hydraulic Modeling of Stratified Flows, A. G. Averkiev and K. Ya. Kind, ISSF:Aug 72:485
Linearized Non-Stokesian Drag in Turbulent Flow, Barclay G. Jones, Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528
A Model for Computation of Stratified Turbulent Flow, J. L. Lumley, ISSF:Aug 72:335
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509
Some Peculiarities of Turbulence in the Stratified Ocean, R. V. Ozmidov and V. S. Belyaev, ISSF:Aug 72:595
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673
Turbulent Entrainment in Buoyant Jets and Plumes, E J. List and Jorg Imberger, HY9:Sept 73:1461:9992
Turbulent Shear Flow in Porous Boundary, James F. Ruff and Lynn W. Gelhar, EM4:Aug 72:975:9144
TR:138:404

Turkey
Construction of Keban Dam on the Euphrates River, Turkey, J. Fernandez Zuazo, Preprint No.1900, Jan 73

Turnkey Projects
Draft Guide to Turnkey Construction Contracts, CE:Oct 72:52
TR:138:444

Twisting Stress
Cracking and Control, Neil Jackson, TB:73:III-24-723

Two Dimensional Flow
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Numerical Methods of Investigation into Stratified Flows, B. I. Sokolov, ISSF:Aug 72:659
Plane Jet on Sloping Floors Under Finite Submergence, V. Mura Hari, HY9:Sept 73:1449:10027
Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155

Two Phase Flow

Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
The Effect of Large Scale Circulation on the Interface of Stratified Flows, Konstantin Zagustin, ISSF:Aug 72:727
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
TR:138:155
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Numerical Computation of Stratified Nearly Horizontal Flows, John P. Grubert and Michael B. Abbott, HY10:Oct 72:1847:9300
TR:138:530
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, Subhash C. Mehrotra and R. E. Kelly, ISSF:Aug 72:603
Perturbation Analysis of Two-Phase Infiltration, Alain Noblanc and Hubert J. Morel-Seytoux, HY9: Sept 72:1527:9186
TR:138:463
Pipelining of Low-Concentration Sand-Water Mixtures, Millard P. Robinson, Jr. and Walter H. Graf, HY7:July 72:1221:9060
TR:138:381
Product Segregation on Liquid Petroleum Pipelines, John B. Benear, Preprint No.2056, July 73
Turbulent Compound Annular Shear Layers, Nallamuthu Rajaratnam and B. S. Pani, HY7:July 72:1101:9009
TR:138:350

Ultimate Loads

Analysis of Ultimate Loads of Shallow Foundations, Aleksandar Sedmak Vesic, SM1:Jan 73:45:9480
British Column Design, Allan R. Gent, TB:73:II-16-545
Expected Value of Ultimate Load Factor, Alberto Castellani, TN: ST2:Feb 73:291:9545

Ultimate Strength

Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739: 9409
TR:138:572
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Rectangular Prestressed Beams in Torsion and Bending, Hota V.S. GangaRao and Paul Zia, ST1: Jan 73:183:9501
Strength Predictions of Plates in Uniaxial Compression, Robert M. Korol and Archibald N. Sherbourne, ST9:Sept 72:1965:9194
TR:138:444
Ultimate Strength Design of Tubular Joints, J. Blair Reber, Jr., ST6:June 73:1223:9793

Ultimate Strength Design

Reinforced Concrete Columns, State-of-Art Report 5, Ignacio Martin, TB:73:III-21-223
Ultimate Strength Design of Composite Columns, Horace J. Brettle, ST9:Sept 73:1931:9975

Ultrasonic Tests

Design Limitations for Fatigue, State-of-Art Report 5, Takeo Naka, TB:73:II-18-771

Ultraviolet Radiation

Competitive Growth of Sewage Organisms, Calvin P.C. Poon and Kuang K. Wang, EE4:Aug 73:489: 9944

Uncertainty Principle

Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB: 73:Ib-10-919
Eigenvalue Uncertainty in Stressed Structures, Gary C. Hart, EM3:June 73:481:9780
Modeling, Analysis and Updating of Uncertainties, Wilson H. Tang and Alfredo H.-S. Ang, Preprint No.2016, Apr 73

Underdrains

Analysis of Failure of Baldwin Hills Reservoir, Thomas M. Leps, PES:72:I-507
Prefabricated Filter-Fin for Subsurface Drains, Kent A. Healy and Richard P. Long, IR4:Dec 72:543: 9422
TR:138:594

Underground Facilities

Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, Marshall U. Bagwell, CE: Feb 73:45
The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Director, UNSANS:73:

Underground Life Support Systems

The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Director, UNSANS:73:

Underground Storage

Analytical Study of Pressurized Elliptical Cavities, Yoginder P. Chugh and H. Reginald Hardy, Jr., RM14:73:339
Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
TR:138:588
How to Cut Underground Construction Costs, R. L. Loofbourow, CE:June 72:85
TR:138:310
Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598

Underground Structures

Earth Pressures on Structures Due to Fault Movement, James M. Duncan and Guy Lefebvre, SM12:Dec 73:1153:10237
The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, George A. Fox, Preprint No.2099, Oct 73
The Subsurface Environment: Private Property or Public Domain, William R. Walker and William E. Cox, Preprint No.2102, Oct 73
The Use of Underground Space to Achieve National Goals, Robert F. Baker, Project Director, UNSANS:73:

Underpasses

Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
Stresses Around Flexible Elliptic Pipes, John F. Abel, Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Underpinning

Underpinning Massive Structures, Charles E. Mergentime, CE:Mar 72:40
TR:138:123

Undersea Surveillance

Structures for Undersea Exploration, Lev Zetlin, I. Paul Lew and Richard L. Tomasetti, Preprint No.1914, Jan 73

Underwater Construction

Breakout Resistance of Objects Embedded in Ocean Bottom, Aleksandar Sedmak Vesic, SM9:Sept 71: 1183:8372
TR:138:19

Offshore Structures - Statistical Strain Recording, Michael A. Garnett, Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
  TR:138:177
Structures for Undersea Exploration, Lev Zetlin, I. Paul Lew and Richard L. Tomasetti, Preprint No.1914, Jan 73
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
  TR:138:368

Underwater Equipment
Underwater Bridge Inspection, James J. Powers and Thomas J. Collins, CE:Mar 73:66

Underwater Objects
Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698

Underwater Pipelines
Design Criteria for Submarine Pipeline Crossings, David R. Townsend and Donald W. Farley, Preprint No.1918, Jan 73
Offshore Pipeline Burial, Sjoerd C. Haagsma, TN: TE4:Nov 73:980:10117
The Outfall Sewer Story, Edward B. Fitzpatrick, Jr., Preprint No.2107, Oct 73
Pipeline Design to Reduce Anchor and Fishing Board Damage, Robert J. Brown, TE2:May 73:199:9716
Structural Considerations in the Design of Submarine Pipelines, Sam W. Small, Preprint No.1974, Apr 73

Underwater Structures
Acoustic Approximations in Fluid-Shell Interactions, Bedros Bedrosian and Frank L. DiMaggio, EM3: June 72:731:8998
  TR:138:337
Cylindrical Concrete Hulls Under Hydrostatic Loading, Harvey H. Haynes, Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
  TR:138:294
Impulsive Hydrodynamics of Submerged Rigid Bodies, C. J. Garrison and Ronald B. Berklite, EM1:Feb 73:99:9563
Structures for Undersea Exploration, Lev Zetlin, I. Paul Lew and Richard L. Tomasetti, Preprint No.1914, Jan 73
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
  TR:138:308

Undrained Shear Tests
Secondary Consolidation and Strength of a Clay, Chih-Kang Shen, Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273
Undrained Cyclic Shear of Saturated Sand, Vincent P. Drnevich, SM8:Aug 72:807:9134
  TR:138:431

Uniform Flow
Simulation of Dispersion of Suspended Particles, B. Mutlu Sumer, HY10:Oct 73:1705:10056

Uniformity Coefficient
Hydraulics and Uniformity for Drip Irrigation, I-pai Wu and H. M. Gitlin, IR2:June 73:157:9786

Unionization
American Engineering Unions, Hatim M. Hajj, PP2: Apr 73:213:9657
Civil Engineer's Compensation - ASCE's Future, Daniel J. Smyers, PP4:Oct 72:557:9226
  TR:138:500
Collective Bargaining on the Campus, B. Austin Barry, PP4:Oct 72:551:9277
  TR:138:563
National ASCE Drafts Proposed Salary Guidelines, CE:Jan 72:42
  TR:138:9
Proper Grievance Handling Makes Unions Unnecessary, Lester D. Chipman, CE:Sept 73:95
Salary Guidelines: Enlightened Implementation or Unionization?, Jack H. McMinn, PP4:Oct 73:429:10090

Union of Soviet Socialist Republics
Hotel "Intourist" Smolenskaya Square, N. P. Melnikov, TB:73:C-P-240
New Trends and Possibilities in Development of Metal Structures, N. P. Melnikov, TB:73:C-DM-201
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, N. P. Melnikov, TB:73:II-13-121
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93

United Kingdom
Consturction Practices in the U.K., G. G.K. Smith, TB:73:Ia-4-816

United States
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591

United States Government
Metrication in the United States, a Status Report, L. E. Barbrow, PP4:Oct 72:505:9276
  TR:138:555

Unit Hydrographs
Review of Green's Function for Linear Open Channel, Wilfried Brutsaert, EM6:Dec 73:1247:10236

Units of Measurement
Introduction to Metric or SI, Burton Kleinberg, CE: Mar 73:55
  Dsc: Burton Kleinberg, CE:Apr 73:81

Universities
The Continuing Challenge of Engineering Education, Arthur G. Hansen, PP3:July 72:351:9037
  TR:138:395
University of Wisconsin Offers Professional Development Degree, John P. Klus and C. Allen Wortley, CE:Jan 72:49
  TR:138:20

Unloading
Seismic Design of LASH Terminal, Robert T. Lawson and Henry J. Degenkolb, Preprint No.2007, Apr 73

Unsaturated Soils
Saturated-Unsaturated Seepage by Finite Elements, Shlomo P. Neuman, HY12:Dec 73:2233:10201

Unsteady Flow
Development of the Turbulized Fluid Region in Stratified Medium, O. F. Vasiliev, B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161
Linear Programming and Channel Flow Identification, William W-G. Yeh and Leonard Becker, HY11:Nov 73:2013:10177
Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842
Routing Storm Water Through a Drainage System, Subin Pinkayan, HY1:Jan 72:123:8642
  TR:138:102
Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
  TR:138:87

Uplift Pressure

- Boundary Effects on Stability of Structures, A. S. Chawla, HY9:Sept 72:1557:9199
  - TR:138:481
- Damage to Karnafuli Dam Spillway, Mohammad A. Rahman, HY12:Dec 72:2155:9452
  - TR:138:596
- Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64

Urban Areas

- University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
  - TR:138:523

Urban Development

- Analysis of BART Impacts on Bay Area Land Use, Douglass B. Lee, Jr., TE2:May 72:395:8907
  - TR:138:226
- Anticipating Urban Environmental Concerns for the Means of Transportation, Lawrence A. Wills, Preprint No.2101, Oct 73
- Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77
- Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
- Beltway and Tax Base Impacts, Floyd I. Thiel, UP1: Mar 73:105:9619
- Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
- Building B -- Santiago Central Development Program, J. Aguirre, C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
- Cities Solve Problems, John V. Lindsay, TB:73:C-DM-211
- The City Planning Environment and Tall Buildings, Calvin S. Hamilton, Preprint No.2044, July 73
- Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
  - TR:138:307
- Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
- Dsc, Controlling Urban Growth -- But for Whom?, Lawrence E. Miller, CE:Sept 73:36
- Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, Preprint No.1898, Jan 73
- Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
- Evaluation of New Systems For Urban Transportation, Reed H. Winslow and Jerry L. Pfeffer, TE4:Nov 72:757:9354
  - TR:138:518
- Games for Simulating Urban Development Process, Harvey O. Haack and George L. Peterson, UP2: Dec 71:149:8568
- Goals for Dallas Program, Erik Jonsson, CE:Sept 72: 58
  - Dsc: Mark Jordan, CE:May 73:45
  - TR:138:394
- Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986
- Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
- Pattern Discovery in Urban Environment, Tung Au and Andrew K.C. Wong, Preprint No.1993, Apr 73
- Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
- Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
- Planning: Integrated Grant Administration Program, Roland M. Lewis, Preprint No.2052, July 73
- The Prairie Plan, Frank L. Kudrna, Preprint No.1890, Jan 73
- Precast Concrete in Residential Construction, Rexford L. Selbe, UP1:Mar 73:93:9596
- "Quo Vadis, ASCE?", Vukan R. Vuchic, CE:June 73: 59
  - Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE: Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73: 32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34
- Service and Capacity of People Mover Systems, John J. Fruin, TE3:Aug 73:489:9942
- Societal Factors and Tall Buildings, State-of-Art Report 2, Charles Brownstein and Leonard Ruchelman, TB:72:C-AC19-151
- Structural Design of Tall Concrete and Masonry Buildings, Preface, Georg Wastlund and Raymond C. Reese, TB:73:III-1
- Tall Buildings in Antiquity, Douglas D. Feaver, TB: 73:Ia-1-251
- Tall Buildings in the World (The Viewpoint of a Non-American), Duiliu Sfintesco, TB:73:C-13
- Team Effort, Robert J. Young, TB:73:C-DM-215
- Testing Methods for Determination of Urban Runoff, Constantine N. Papadakis and Herbert C. Preul, HY9:Sept 73:1319:9987
- Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591
- Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
- Urban Commodity Flow - Suggested Research Projects, Warren B. Lovejoy, UP1:July 72:55:9047
  - TR:138:554
- Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003
- The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
  - TR:138:358
- Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
- Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
  - TR:138:574

Urbanization

- Conceptual Hydrologic Models for Urbanizing Basins, Ramachandra A. Rao, Jacques W. Delleur, and B. S.P. Sarma, HY7:July 72:1205:9024
  - TR:138:362
- Iron, Engineers, and Urbanization, Antoinette J. Lee, PP2:Apr 73:179:9672
- Methods for Predicting Urban Drainage Costs, Walter J. Rawls and John W. Knapp, HY9:Sept 72: 1575:9206
  - TR:138:486

Urban Planning

- Analysis of Need for Goods Movement Forecasts, Davit Fresko, Gordon Shunk and Franklin Spielberg, UP1:July 72:1:9017
  - TR:138:87
- Annual Surveillance of Urban Traffic Growth, Peter S. Parsonson, TE3:Aug 72:679:9113
  - TR:138:346
- Behavioral Models in Transportation Planning, Frank E. Horton, TE2:May 72:411:8908
  - TR:138:234
- The Bicycle Anarchy, James L. Konski, TE4:Nov 73: 757:10120
- The Challenge to Civil Engineering, Dennis Warner, CE:July 72:66
  - Dsc: Dennis C. Cook, CE:Oct 72:63
  - TR:138:339
- Cities Solve Problems, John V. Lindsay, TB:73:C-DM-211
- City Planning Bibliography, George C. Bestor and Holway R. Jones, CPB:72:
  - TR:138:266
- Communications Substitutes for Intra-Urban Travel, Richard C. Harkness, TE3:Aug 72:585:9100
  - TR:138:307
- Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
- Computer-Aided Design of Airport System Plans, Everett S. Joline, Preprint No.2058, July 73

Design and Construction of Tall Buildings, State-of-Art Report 12, B. Rubanenko, TB:73:Ia-1-231
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, M. B. Posokhin, TB:73:Ia-1-183
A Draft ASCE Statement on the Role of the Civil Engineer in the Planning and Development of New Communities in the United States Urbanization and Settlement, CE:June 73:62
Econometric Model to Aid in Urban Planning Decisions, John F. Brotchie, Ron Sharpe and A. Ray Toakley, UP1:Mar 73:25:9587
Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475:8761
TR:138:178
Electric Utility Problems in Meeting Urban Planning Requirements, Alfred R. Golze, UP2:Sept 73:193:10016
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511
Environmental Factors in Passenger Terminal Design, John J. Fruin, TE1:Feb 72:89:8734
TR:138:71
Environmental Noise Management, Daniel P. Loucks, Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202
Environmental Systems, Summary Report, Henry J. Cowan, TB:73:Ia-1-289
Environmental Systems, Theme Report, Thomas C. Kavanagh, TB:73:Ia-1-7
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
TR:138:404
Evaluating Recreational Potential of Small Streams, John A. Dearinger, UP1:July 72:85:9046
TR:138:478
Facilities Planning in Rural Alaska, Douglas A. Stark, UP2:Sept 73:247:9970
The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85
Goal Formulation for Socio-technical Systems, G. Scott Rutherford, Joseph L. Schofer and Martin Wachs, UP2:Sept 73:157:9985
Goals for Dallas Program, Erik Jonsson, CE:Sept 72:58
Dsc: Mark Jordan, CE:May 73:45
TR:138:394
Gothenburg (Sweden) Uses Barriers to Cut Traffic, Curt M. Elmberg, CE:Sept 72:71
TR:138:406
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035
TR:138:246
The Impact of Urban Planning on Electric Utilities, Alfred R. Golze, Preprint No.1903, Jan 73
Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1:Mar 73:27:9608
Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984
Introduction to Tall Buildings Proceedings, Lynn S. Beedle, TB:73:C-1
La Defense, Duiliu Sfintesco, TB:73:Ia-1-274
Markov Renewal Model of Linked Trip Travel Behavior, Gorman Gilbert, George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
TR:138:339
A Master Planning Methodology for Urban Drainage, Harold F. Bishop, Preprint No.1887, Jan 73
Minority Programs for ASCE, Sol E. Cooper, Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
TR:138:485
Mobile Homes and New Communities, Herbert W. Behrend, Preprint No.2088, Oct 73
Mutual Benefits of Housing and Mass Transit, Oktay Ural and J. Larry Josey, PP1:Jan 73:91:9502
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
New Concepts in Urban Parking, John C. Schoon, Preprint No.2043, July 73
New Town Planned Around Environmental Aspects, Ralph C. Everhart, CE:Sept 73:69
Noise Control in Urban Planning, Clifford R. Bragdon, UP1:Mar 73:15:9590
Opening Remarks to Tall Buildings Conference, Le-Wu Lu, Conference Chairman, TB:73:C-19
Participation Planning for Boston Metro-Area Transportation, John G. Wofford, CE:Apr 73:78
Pedestrian System Planning for High Rise Buildings, John J. Fruin, Preprint No.2055, July 73
Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205:9971
Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585
Regional-Local Conflicts in Transportation Planning, Harvey R. Joyner, TE3:Aug 72:515:9136
TR:138:394
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353
San Antonio: Classic "Stop the Freeway" Case, Virginia Fairweather, CE:July 73:59
Dsc: Dean O. Chadwick, CE:Nov 73:38
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
TR:138:4
Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
TR:138:325
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, Roy C. Herrenkohl, TB:73:C-AC19-139
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Tall Buildings--A Technological Assessment, Thomas C. Kavanagh, PP1:Oct 71:111:8476
TR:138:54
Tall Buildings: Urban Planning Factors, Edgardo Contini, Preprint No.2066, Oct 73
Tax Allocation Bonds in California, Samuel A. Sperry, UP2:Sept 73:147:9991
Theory and Practice of Public Participation in Planning, George E. Willeke, Preprint No.1871, Jan 73
Time Stability of Zonal Trip Production Models, Norman Ashford and Frank M. Holloway, TE4:Nov 72:799:9362
TR:138:535
Towards New Towns for America-Slowly, George C. Bestor, UP1:Mar 73:47:9591
Transformation of Plans into Actions, Johannes W Kurz, UP2:Sept 73:183:10029
Transport Analysis of Regional Development Plans, Bruce G. Hutchinson, UP1:Mar 73:57:9592
Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
Trends in Offshore Airports, Richard D. Harza, TE4:Nov 72:985:9343
TR:138:497
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, G. Makarevich, TB:73:Ia-1-93
Urban Road Pricing Through Selective Parking Taxes, Robert E. Burns, TE4:Nov 72:739:9316
TR:138:440
Urban Sedimentation in Perspective, Harold P. Guy and D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574
Urban Transportation, Murray A. Muspratt, TN: TE1:Feb 73:193:9529

- Urban Water Resources -- The Politics of Management, Francis B. Francois, Preprint No.1876, Jan 73
- Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
- Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054
  - TR:138:605

Urban Renewal

- Characteristics of Chilean Tall Buildings, E. Calcagni and G. Rudolfo Saragoni, TB:73:C-P-462
- Cities Solve Problems, John V. Lindsay, TB:73:C-DM-211
- Clinton Square, Welton Becket and Associates, TB:73:C-P-338
- HUD Sewer Policy in Urban Renewal Areas, Francis J. Blesso, UP1:July 72:33:9035
  - TR:138:246
- One Hundred Summer Street, Welton Becket and Associates, TB:73:C-P-314
- Pattern Discovery in Urban Environment, Tung Au and Andrew K.C. Wong, Preprint No.1993, Apr 73
- Tour Apogee, Skidmore, Owings & Merrill, TB:73:C-P-486
- Tower No. 22 -- San Borja Residential Renewal Project, A. Sandoval and A. Vives, TB:73:C-P-472
- Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
- Urban Degradation and Building Systems, Murray A. Muspratt, UP2:Sept 73:235:10003

Urban Transportation

- Anticipating Urban Environmental Concerns for the Means of Transportation, Lawrence A. Wills, Preprint No.2101, Oct 73
- Assessing Impact of Urban Transportation, David E. Boyce, TE3:Aug 72:645:9111
  - TR:138:330
- BART Rail Transit System Begins Operations, CE:Nov 72:63
  - Dsc: R. Leo Burditt, CE:July 73:22
  - TR:138:505
- Bridge To Europe, Laurence E. Rohter, CE:Mar 73:61
- Bunker Hill-Los Angeles Parking and People Mover Program, Martin A. Wallen, Preprint No.2090, Oct 73
- Computer Simulation of Subway Environment, Thomas E. Hoover, Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518
- Demand Activated Transportation for The Elderly, Charles B. Notess and Robert E. Paaswell, TE4:Nov 72:807:9320
  - TR:138:456
- Freeway Development Effects Upon Adjacent Transit Usage, Curtis W. Richards and Edward A. Beimborn, TE3:Aug 73:435:9923
- Full Compensation and Transportation Corridor Analysis, Joseph R. Passonneau, TE2:May 73:393:9746
- Life-Style Factors Behind Modal Choice, Charles B. Notess, TE3:Aug 73:513:9953
- Location of Bus Stops, Walter H. Kraft and Thomas J. Boardman, TE1:Feb 72:103:8740
  - TR:138:79
- Multiple Use of City Transportation Corridor, Harry R. Powell and F. G. Alden, TE3:Aug 72:633:9096
  - TR:138:285
- Need for Competent Engineering for Transit Systems, Louis T. Klauder, TN: TE3:Aug 73:9899
- Neighborhood Objectives as Generators of Regional Transportation Networks, Joseph R. Passonneau, UP2:Sept 73:217:10032
- New Concepts in Urban Parking, John C. Schoon, Preprint No.2043, July 73
- On Two Means of Alleviating Rush-Hour Crowding, Charles Libove, Preprint No.2033, July 73
- Patterns of Mobility of the Working Poor, Arthur Saltzman and Alice E. Kidder, Preprint No.2046, July 73
- Pedway Systems in Urban Centers, John J. Fruin, CE:Sept 73:63
- Planning PRT Systems for Urban Renewal Projects, Frederick C. Johnson, TE3:Aug 73:585:9909
- Policy-Sensitive Model for Mode Split Planning, Gerald R. Brown, TE4:Nov 73:711:10123
- Pricing in Mass Transportation, Masatoshi A. Abe and Kumares C. Sinha, TE1:Feb 73:83:9551
- Proximal Decisions in Traffic Intersections, Lloyd Sako and Samuel Zundelevich, TE3:Aug 73:597:9915
- Public Participation in Urban Transit Service, Michael G. Ferreri, TE4:Nov 73:701:10121
- Public Transit and Job Access in Chicago, Martin Wachs and Joseph L. Schofer, TE2:May 72:351:8888
  - TR:138:170
- Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
  - TR:138:353
- Shopping and Work Trips in the Black Ghetto, Charles B. Notess, UP1:July 72:71:9039
  - TR:138:325
- Superconducting Levitation of High Speed Vehicles, Vincent D. Arp, Alan F. Clark and Thomas M. Glynn, TE4:Nov 73:873:10163
- Transit's Need for Assured Federal Aid, Michael Cafferty, TE2:May 73:289:9735
- Transit System Employs Three Modes, Robert F. Seedlock, CE:May 72:41
  - Dsc: Larry Madsen, CE:Aug 72:54
  - TR:138:226
- Transportation and Retirement, Frances M. Carp, TE4:Nov 72:787:9341
  - TR:138:484
- Transportation and Urban Renewal - Experience in the United Kingdom, William K. Mackay, UP1:Mar 73:1:9624
- Trends in Urban Transportation, Charles B. Notess, TE3:Aug 73:655:9955
- The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
  - TR:138:358

Urethanes

- Rigid Urethane Foam Cures Roof Leakage, Bruce C. Gandy, CE:July 73:73

Uscold

- Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, Wayne S. Byrne, CO1:Mar 72:103:8781
  - TR:138:257

U.S. Corps of Engineers

- Corps of Engineers Promotes Continuing Education, Melford E. Monsees, CE:Jan 72:63
  - TR:138:39

Use Rates

- Oxygen Depletion in Ice Covered River, Patrick H. Bouthillier, SA2:Apr 72:341:8841
  - TR:138:326

Utah

- Benefits to Environment Glen Canyon to Hoover Dams, Cecil Baltzar Jacobson, PO2:Nov 73:395:10146
- A Field Laboratory for Stratified Flow Studies, P. C. Chang and A. Lin, ISSF:Aug 72:501
- Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088
- Rehabilitation of a Channelized River in Utah, James R. Barton and Parley V. Winger, HYB:Aug 73:1

Utilities

- Earthquake Effects on Electric Power Systems, Anshel J. Schiff, PO2:Nov 73:317:10134
- Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, Preprint No.1898, Jan 73

Economic Guidelines for Public Utilities Planning, Jarir S. Dajani and Robert S. Gemmell, UP2:Sept 73:171:9977
Integrated Information Systems for Utilities, Brian W. Mar, UP2:Sept 73:123:9984
Interim Committee on Lifeline Earthquake Engineering, CE:Dec 73:65
Optimal Design of Urban Wastewater Collection Networks, Jarir S. Dajani, Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
TR:138:534
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
TR:138:364
Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148
The State's Role in Gas Safety, Harold E. Shutt, TE1:Feb 72:45:8700
TR:138:46

Vacuum
Behavior of Returned Lunar Soil in Vacuum, W. David Carrier, III, Leslie G. Bromwell and R. Torrence Martin, SM11:Nov 73:979:10156

Vacuum Cleaners
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363

Value Engineering
At Hydro Plant, Value Engineering Saves $600,000, Norman L. Scott and C. T. McCreedy, CE:Mar 73:72
Contracting Practices, State-of-Art Report 1, Charles A. DeBenedittis, TB:73:Ia-4-669
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72

Values
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
TR:138:582

Valves
Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215
Cavitation Characteristics of 18-Inch Butterfly Valve, S. M. Cho, W. J. Carlson and M. J. Tessier, HYB:Aug 73:141
Cavitation in High-Head Conduit Control Dissipators, John F. Ripken and Norio Hayakawa, HY1:Jan 72:239:8678
TR:138:151
Cavitation Scale Effects for Valves, J. Paul Tullis, HY7:July 73:1109:9874
Choking and Supercavitating Valves, J. Paul Tullis, HY12:Dec 71:1931:8593
TR:138:69
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
TR:138:465
Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
High Head Gates and Valves in the United States, by the Task Committee on Outlet works of the Committee on Hydraulic Structures of the Hydraulic Division, Cortland C. Lanning, Chmn., HY10:Oct 73:1727:10107
Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167:9500

Vane Shear Tests
A Direct-Reading Pocket Shear Vane, Stanley Serota and Anil Jangle, CE:Jan 72:73
TR:138:63

Variance (Statistics)
Assessing and Reporting Uncertainties, State-of-Art Report 1, Carl J. Turkstra and Haresh C. Shah, TB:73:Ib-10-919
Simulation of Dissolved Oxygen Profile, G. Clinton Sornberger and Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
TR:138:550

Variations
Flow Over Rounded Spillways, Kamil H.M. Ali, HY2:Feb 72:365:8704
TR:138:163

Vector Analysis
Elements of Random Vector Analysis, Robert M. Stark and Devendra K. Shukla, TN: EM2:Apr 73:434:9641
Three-Dimensional Forward and Inverse Computations, William E. Ball, Jr., SU2:Nov 72:167:9361
TR:138:595
Three-Dimensional Resection--A Vector Approach, William E. Ball, Jr., SU1:Sept 73:87:10007
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561

Vectors (Mathematics)
Vectors in Dimensional Analysis, Johannes Gessler, EM1:Feb 73:121:9561

Vegetation
Flow Resistance from Cylindrical Roughness, Soronadi Nnaji and I-pai Wu, IR1:Mar 73:15:9612

Vehicles
The Bicycle Anarchy, James L. Konski, TE4:Nov 73:757:10120
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
TR:138:469
Evaluation of the Risk of Vehicle Impact on Structures, Paul M. Sanders, STF:73:87
Fiber Reinforced Composites: New Structural Material, Robert Alan Mole, CE:Dec 73:72
Pallet Systems for Integrating Urban Transportation, David Gordon Wilson, TE2:May 72:225:8900
TR:138:212
Parking Facility Layout: Level-of-Service Approach, Jason C. Yu and Alexander R. Lincoln, TE2:May 73:297:9728
Planning Criteria for Bikeways, Vincent R. Desimone, TE3:Aug 73:609:9928
Stress Field Under Slipping Rigid Wheel, Mohammed K. Elsamny and Ahmed A. Ghobarah, SM1:Jan 72:13:8625
TR:138:113
Two Means of Alleviating Rush-Hour Crowding, Charles Libove, TE4:Nov 73:845:10144

Vehicular Traffic
Curbside Service Subways, Charles J. Swet, TE4:Nov 72:941:9331
TR:138:469
Freeway Traffic Control and Surveillance Model, Harold J. Payne, TE4:Nov 73:767:10124

Vehicular Tunnels
Submerged-Tube Tunnel in Mobile, Ray R. Slocum, CE:Aug 72:49
TR:138:368
Vehicular Tunnels in Rock - Direction for Development, Richard J. Robbins, CO2:Sept 72:235:9173
TR:138:379

Velocity
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
Inviscid Shear Flow with Corner Eddies, P.A. Aswatha Narayana and M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81

Surface Aerator Interactions, Kenneth S. Price, Richard A. Conway and Albert H. Cheely, EE3: June 73:283:9797
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
  TR:138:81
Velocity and Temperature in Buoyant Jet, Richard Dornhelm, Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
  TR:138:148

Velocity Distribution
Density Front Between Sliding Layers, Hermann Moshagen, ISSF:Aug 72:621
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
  TR:138:347
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, C. D. Winant, ISSF8:Aug 72:709
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, V. N. Anuchin, A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF: Aug 72:527
Flow Pattern at a River Mouth, Masakazu Kashiwamura and Shizuo Yoshida, ISSF:Aug 72: 589
Inflow Density Currents in TVA Reservoirs, Rex A. Elder, ISSF:Aug 72:221
Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275: 9050
  TR:138:378
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, Heinz Stefan, ISSF:Aug 72:663
Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73: 17:9540
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
  TR:138:435

Velocity Measurement
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, Borislav V. Georgiev, ISSF:Aug 72:509

Venezuela
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10: Oct 72:995:9303
  TR:138:494
Soil Conditions and Building Damage in 1967 Caracas Earthquake, H. Bolton Seed, Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
  TR:138:423

Ventilation
Computers: Key to Integrated Building Design, Kenneth F. Reinschmidt, CE:Mar 72:74
  Dsc: Donald H. Komito, CE:July 72:52
  TR:138:158
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, Sital Darayanani, TB:73:Ia-2-319
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, Rolf Jensen, TB: 73:Ib-8-523

Vertical Alinement
Least Cost Method for Sewer Design, Stephen Walsh and Linfield C. Brown, EE3:June 73:333:9796

Vertical Drains
Characteristics of an Air-Water Mixture in a Vertical Shaft, C. Samuel Martin, HYB:Aug 73:323

Vertical Loads
Behavior of Sands Under Surface Loads, Jack R. Morgan and Charles M. Gerrard, SM12:Dec 71: 1675:8577
  TR:137:958
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302

Vessels
Ultimate Energy Design of Prestressed Concrete Fender Piling, Shu-t'ien Li and Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
  TR:138:81

Vibration
Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381: 9585
Analysis of Vibration of Hollow-Cone Valves, Chung-su Wang, EM6:Dec 73:1147:10215
An Approach to Time-Varying Spectral Analysis, Shih-Chi Liu, EM1:Feb 72:243:8733
  TR:138:126
Approximate Elastic Analysis, State-of-Art Report 2, John E. Goldberg, TB:73:II-14-169
Approximate Fundamental Frequencies for Chimneys, Kuang-Han Chu and Junesun Park, TN: PO2:Nov 73:441:10115
Beams Subjected to a Follower Force Within the Span, Jack C. Wiley and Richard E. Furkert, EM6: Dec 72:1353:9441
  TR:138:569
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, Sarjit S. Saini, Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
  TR:138:319
Convergence in Modal Synthesis, Stephen E. Johnson and Walter C. Hurty, EM5:Oct 72:1105: 9281
  TR:138:527
Coupled, Nonconservative Stability-Finite Element, C. D. Mote, Jr. and Gerald Y. Matsumoto, EM3: June 72:595:8968
  TR:138:286
Coupled Sliding and Rocking of Embedded Foundations, Raymond J. Krizek, Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
  TR:138:582
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
Design Methods Based on Stiffness, Theme Report, Otto Steinhardt, TB:73:II-17-611
Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
  TR:138:448
Dynamic Analysis by Extra Fast Fourier Transform, Jethro W. Meek and Anestis S. Veletsos, EM2:Apr 72:367:8824
  TR:138:218
Dynamic Field Analysis of Torsionless Grids, Hota V.S. GangaRao and J. C. Smith, EM3:June 72:679: 8993
  TR:138:330
Dynamic Matrix of Timoshenko Beams Columns, Franklin Y. Cheng and Wu-Hsiung Tseng, ST3:Mar 73:527:9595
Dynamics of Guyed Towers, Richard J. McCaffrey and Alois J. Hartmann, ST6:June 72:1309:8988
  TR:138:303
Earthquake Interaction for Multistory Building, Lawrence W. Fagel and Shih-Chi Liu, EM4:Aug 72:929:9149
  TR:138:416
Elastic Design for Earthquake Motions, State-of-Art Report 5, R. Gordon Dean, TB:73:II-14-215
Environmentally Sensitive Construction Procedures, Austin H. Emery, Preprint No.2089, Oct 73

Fatigue of Cover Plated Beams Under Varying Loads, Francis A. Murad and Conrad P. Heins, Jr., ST4:Apr 72:915:8855
  TR:138:225
First Passage of Nonstationary Random Processes, Ross B. Corotis, Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816
  TR:138:205
Flow-Induced Vibrations of Trashrack Bars, J. W. Fortey and Robert F. Tiry, CE:May 72:44
  TR:138:230
Forced Vibration of Class of Nonlinear Dissipative Beams, Sami F. Masri, EM4:Aug 73:669:9959
Frame Vibrations by Consistent Mass Matrix, Fernando Venancio-Filho and Fernando Iguti, TN: ST9:Sept 73:1965:9968
Free In-Plane Vibration of Circular Arches, Anestis S. Veletsos, Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
  TR:138:176
Free Vibration of Arches Flexible in Shear, Walter J. Austin and Anestis S. Veletsos, EM4:Aug 73:735: 9913
Free Vibration of Shells of Revolution Using FEM, Subir K. Sen and Phillip L. Gould, Preprint No.2077, Oct 73
Galloping Oscillations of Hysteretic Structures, Wilfred D. Iwan, EM6:Dec 73:1129:10231
Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
  TR:138:50
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, Constantin N. Avram and Decebal M. Anastasescu, TB:73:III-20-67
Generation of Seismic Floor Response Spectra for Equipment Design, Kanwar K. Kapur and Lawrence C. Shao, SDNPF:Dec 73:29
Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811
Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868
Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72: 1:8634
  TR:138:85
Linear Response to Nonstationary Random Excitation, Timothy K. Hasselman, EM3:June 72: 519:8961
  TR:138:278
List of Limit States, State-of-Art Report 2, J. Brakel, TB:73:III-26-863
Noise and Vibration Control in New Rapid Transit, Marshall L. Silver, TE4:Nov 72:891:9382
  TR:138:579
Noncircular Cylinder Vibration by Multilocal Method, Ahmed K. Noor, EM2:Apr 73:389:9677
Nonlinear Vibrations of Rectangular Plates, D. Jack Bayles, Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727
Non-Synchronous Ground Motion, Horea Sandi, TB: 73:Ib-6-325
Observation of Structural Behavior, State-of-Art Report 4, Yutaka Osawa, TB:73:Ib-6-213
Optimal Random Vibration Absorbers, Raymond G. Jacquot and David L. Hoppe, TN: EM3:June 73: 612:9765
Probabilistic Design for Random Fatigue Loads, Paul H. Wirshing and Edward B. Haugen, EM6:Dec 73: 1165:10223
Properties of Spectral Moments with Applications to Random, Erik H. Vanmarcke, EM2:Apr 72:425: 8822
  TR:138:211
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, Fu-Kuei Chang, TB:73:Ia-1-165
Response of Embedded Footings to Vertical Vibrations, M. Anandakrishnan and N. R. Krishnaswamy, SM10:Oct 73:863:10092
Response of Nonlinear Beam to Random Excitation, Henry R. Busby, Jr. and Victor I. Weingarten, EM1:Feb 73:55:9530
Seismic Design Criteria for Hydroelectric Plant, Marian Pona and A. B. Arnold, PO2:Nov 73:305: 10145
Settlement of Dry Sands During Earthquakes, H. Bolton Seed and Marshall L. Silver, SM4:Apr 72: 381:8844
  TR:138:264
Shear Modulus and Damping in Soils: Measurement and Parameter Effects, Bobby O. Hardin and Vincent P. Drnevich, SM6:June 72:603:8977
  TR:138:328
Shear Modulus and Damping in Soils: Design Equations and Curves, Bobby O. Hardin and Vincent P. Drnevich, SM7:July 72:667:9006
  TR:138:354
Shear Waves in Plane Infinite Structures, John Lysmer and Gunter Waas, EM1:Feb 72:85:8716
  TR:138:89
Spillway Gate Vibration on Arkansas River Dams, Tasso Schmidgall, HY1:Jan 72:219:8676
  TR:138:146
Static and Dynamic Cyclic Yielding of Steel Beams, Amin M. Almuti and Robert D. Hanson, ST6:June 73:1273:9817
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
  TR:138:532
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), Peter Funk, TB:73:III-24-705
Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648
  TR:138:133
Systems Aspects of Seismic Design for Nuclear Plants, Roland L. Sharpe, PO1:May 73:175:9717
Three-Dimensional Vibrations of Orthotropic Cylinders, Fang-Hui Chou and Jan D. Achenbach, EM4:Aug 72:813:9102
  TR:138:362
Torsional-Flexural Vibration of Multi-Story Structures, Jacob Gluck, TB:73:Ib-6-298
Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012
Transient Random Response of Bilinear Oscillators, Loren D. Lutes and Vipin S. Shah, EM4:Aug 73: 715:9918
Transverse Beam Vibration Nonlinear Constraint, Mohammed Ali Dokainish and Rajnish Kumar, EM6:Dec 72:1381:9431
  TR:138:556
Triangular Element for Multilayer Sandwich Plates, Tara P. Khatua and Yau Kai Cheung, EM5:Oct 72: 1225:9233
  TR:138:443
Turbine Generator Vibrations as Induced into a Barge Mounted Nuclear Power Plant, Robert J. McCaffery and Charles M. Johnson, Preprint No.1978, Apr 73
Turbulence Effects On Drag of Sharp-Edged Bodies, John A. Roberson, Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72: 1187:9061
  TR:138:386
Vertical Vibration of Embedded Footings, Milos Novak and Youpele O. Beredugo, SM12:Dec 72: 1291:9412
  TR:138:568
Vibration of Circular Plates with Edge-Beams, Richard J. Stuart and John F. Carney, TN: EM4: Aug 73:907:9898
Vibration of Flanged Beams and Panels, Satya P. Keshava, TN: ST7:July 73:1681:9828
Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, Kenneth H. Lenzen, TB:73:II-17-667
Vibration of Heavy Industrial Slabs, James H. Woodward and Claudie K. McDonald, TN: ST8: Aug 73:1797:9911
Vibrations of Elastically Connected Ring Systems, Vincent X. Kunukkasseril and K. Rami Reddy, EM4:Aug 72:777:9092
  TR:138:350

Vibrations of Embedded Footings and Structures, Milos Novak, Preprint No.2029, Apr 73
Vibrations of Machine Foundations and Soil Dynamics Considerations, Dhirendra S. Saxena, Preprint No.1991, Apr 73
Vibrations of Pressure Loaded Hyperboloidal Shells, Mehran Lashkari, Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
TR:138:431
Vibratory In Situ and Laboratory Soil Moduli Compared, Robert W. Cunny and Zelma B. Fry, SM12:Dec 73:1055:10219
Virtual Mass of Submerged Structures, Anjur R. Chandrasekaran, Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
TR:138:308

Vibratory Compaction
Subsidence of Sand Due to Surface Vibration, William F. Brumund and Gerald A. Leonards, SM1:Jan 72:27:8648
TR:138:133

Vibratory Pile Driving
Densification of Sand for Drydock by Terra-Probe, Henry W. Janes, SM6:June 73:451:9821

Vierendeel Trusses
Field Solutions for Shear Grids, Donald L. Dean, ST12:Dec 71:2845:8594
TR:137:969

Virginia
First & Merchants National Bank, Welton Becket and Associates, TB:73:C-P-322
Repeatability in Estuarine Hydraulic Model, Paul V. Hyer, HY4:Apr 72:631:8832
TR:138:229
Some Sediment Aspects of Tropical Storm Agnes, Harold P. Guy and Terry L. Clayton, TN: HY9: Sept 73:1653:10024

Viruses
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5: Oct 71:661:8419
TR:138:41
Persistence of Virus and Bacteria in Seawater, William D. Won and Harold Ross, EE3:June 73: 205:9781

Viscoelasticity
Response of Viscoelastically Restrained Beam, Frank A. Moughton, ST7:July 73:1607:9869
Statistical Theory for Viscoelastic Materials, Joseph Soussou and Fred Moavenzadeh, EM5:Oct 72: 1205:9289
TR:138:532
Viscoelastic Shrinkage Stress in Soil-Cement Base, Bal K. Sanan and Kalankamary P. George, SM12: Dec 72:1375:9454
TR:138:598

Viscosity
Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Streamlines in Two-Dimensional Laminar Branch Flows, David Charles Blest, HY1:Jan 72:171:8656
TR:138:127

Viscous Flow
Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73: 1401:10018
The Towing of Bodies in a Stratified Fluid, Walter Debler, ISSF:Aug 72:193
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Visual Aids
A Kinematic Sound Screen: A Cost-Effective Solution to Highway Noise Abatement, John B. Hauskins, Jr., Preprint No.1961, Apr 73

Vocational Guidance
Are More Women Needed in Civil Engineering, Norman J. Fulco and Eugene E. Dallaire, CE:May 73:54
Dsc: Sandra Johnson, CE:July 73:25; Della Laura, CE:July 73:25; Amos Roos, CE:July 73:26; Dorothy M.N. McClellan, CE:July 73:26; Della Laura, CE:Oct 73:32

Voltage Regulation
Automatic Voltage Drop Compensation for Tall Buildings, Frederick S. Rohatyn, TB:73:Ia-2-382

Vortices
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491
Erosion of Sand Beds Around Spur Dikes, Mohammad Akram Gill, HY9:Sept 72:1587:9198
TR:138:476
Experiments on Unstable Vortices, Enzo Levi, EM3: June 72:539:8948
TR:138:249
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
TR:138:60

Wages
Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Wakes
Computer Model of Vortex Shedding From a Cylinder, John R. Chaplin, HY1:Jan 73:155:9491

Wall Friction
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Flow Visualization in Free Shear Layers, Joseph A. Clark and Eric Markland, HY11:Nov 73:1897: 10119

Walls
Analysis of Three-Dimensional Structures, Jacobus H. Wynhoven and Peter F. Adams, ST1:Jan 72:233: 8643
TR:138:109
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234
Approximate Analysis of Tall Wall-Frame Structures, Arthur C. Heidebrecht and Bryan Stafford Smith, ST2:Feb 73:199:9550
Approximate Inelastic Analysis of Shear Wall-Frame Structures, James G. MacGregor, Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11:Nov 72:2351:9351
TR:138:551
Behavior of Structures Under Loads Causing Torsion, Jacobus H. Wynhoven and Peter F. Adams, ST7: July 72:1361:9010
TR:138:306
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, Gert Konig, TB:73:Ia-3-515
Column-Supported Shear Walls With Openings, L. Cerny, TB:73:III-21-282
Computation of Twin Walls Connected by Clamped Beams, Axel Efsen and L. Pilegaard Hansen, TB: 73:III-21-265
Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
TR:138:271
The Continuum Analysis of Shear-Wall Structures, Riko Rosman, TB:73:III-21-271

Ductility of Masonry Walls, Rowland J. Mainstone, TB:73:III-27-1101
Dynamic Properties of Tall Shear-Wall Buildings, George T. Taoka, Augustine S. Furumoto and Arthur N.L. Chiu, Preprint No.1934, Apr 73
Effect of Wall Movement on Active and Passive Pressures, Ian K. Lee and John R. Herington, SM6: June 72:625:8999
  TR:138:347
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, Bryan Stafford Smith and Alexander Coull, TB:73:III-21-157
Elasto-Plastic Analysis of Coupled Shear Walls, Jacob Gluck, ST8:Aug 73:1743:9920
Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, Felix Y. Yokel, CE:Nov 73:79
General Analysis of Nonplanar Coupled Shear Walls, Wai K. Tso and Jayanta K. Biswas, ST3:Mar 73: 365:9604
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, Kiyoo Matsushita and Yoshichita Uchida, TB:73:Ia-12-1067
Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74
  Dsc: Michael A. Jordan, CE:Aug 73:24
Masonry Building Systems, State-of-Art Report 9, Alan H. Yorkdale, TB:73:Ia-3-567
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, Sven Sahlin, TB:73:III-22-373
Model for Ultimate Strength of Shear Walls, Bruno Zimmerli, TB:73:III-21-296
Model Investigations of Shear Wall Structures, Alexander Coull and A. W. Irwin, ST6:June 72: 1223:8936
  TR:138:284
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, I. K. Nikitin, V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635
Model Studies of Coupling Beams, State-of-Art Report 3, Mario Paparoni, TB:73:III-24-671
Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706
Passive Pressure Coefficients by Method of Slices, Donald H. Shields and A. Zeki Tolunay, SM12:Dec 73:1043:10221
Performance of Braced Excavations in London Clay, William H. Ward, PES:73:III-257
Performance of Tie-Back Support Systems, Gerald W. Clough, PES:73:III-259
Pertinent Techniques for Compacting Concrete, Shu-t'ien Li and Donald A. Stewart, CO2:Sept 72:173: 9181
  TR:138:429
Plate Wall Cladding, State-of-Art Report 3B, John B. Scalzi and Arthur P. Arndt, TB:73:II-17-653
Practical Design of Masonry Buildings, R. M. Gensert and William C. Bretnall, TB:73:III-27-1069
Research Regarding the Interaction of Shear Walls and Frames, Constantin N. Avram, Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318
Shear Walls, State-of-Art Report 4, Masahide Tomii, TB:73:III-21-203
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, Iosif Gruner, Grigore Rotaru and Radu Frunza, TB:73:III-25-827
Stability of Frames and Shear Walls, Gert Konig, Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613
Stability, Theme Report, Hubert Beck and Kon Zilch, TB:73:III-23-499
Strength of Load-Bearing Masonry Walls, Felix Y. Yokel and Robert D. Dikkers, ST5:May 71:1593: 8143
  TR:137:943
Stresses in Walls Due to Vertical Loads, Gunnar Karrholm and Hans Petersson, TB:73:III-21-302
Structural Behavior of Masonry Elements, State-of-Art Report 3, Ronald J. Mallet, TB:73:III-27-1001
Structural Strength of Hollow Clay Tile Assemblages, Franklin B. Johnson and John H. Matthys, ST2:Feb 73:259:9577
Three-Dimensional Interaction of Walls and Frames, Miguel Carlos Stamato and E. Mancini, ST12:Dec 73:2375:10193
Unreinforced Masonry Load-Bearing Walls, Kenneth P. Buchert, CE:Dec 73:64
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, Edward Cohen, TB:73:III-20-27
Vertical Wall Joints, M. Pommeret, TB:73:III-21-277
Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425
Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
  TR:138:137
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603

Warpage
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, Arthur C. Heidebrecht and Bryan Stafford Smith, ST12:Dec 73:2355:10234
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, Ray N. Nitzsche and Robert E. Miller, EM4:Aug 72:867:9130
  TR:138:382

Washington
Longest Concrete-Arch Bridge in North America, Ernest C. Harris and John A. Talbott, CE:July 72: 49
  TR:138:329
Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Mehmet A. Sherif and Robert J. Strazer, SM1:Jan 73:111:9511
Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60
  TR:138:139

Washington, D.C.
Cabin John Bridge, Donald B. Myer, Preprint No.1873, Jan 73
Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
Performance of a Braced Excavation in Granular and Cohesive Soils, K. R. Chapman, Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271
Tieback Wall Construction - Results and Controls, Kenneth Ware, Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239
Washington D.C.'s Metro--A Progress Report, Robert S. O'Neil, CE:Apr 72:56
  TR:138:194

Waste Assimilative Capacity
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72: 305:8810
  TR:138:276

Waste Disposal
Cleaning and Waste Disposal, State-of-Art Report 6, Fritz Reuter, TB:73:Ia-2-363
Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
  TR:138:574
Debris Accumulation in Ancient and Modern Cities, Charles G. Gunnerson, EE3:June 73:229:9771
Demonstration Sanitary Landfill in Kansas City, Kans., Gerald A. Neely and Nicholas S. Artz, CE: Oct 72:72
  TR:138:468
Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Facility Selection and Haul Optimization Model, Houshang Esmaili, SA6:Dec 72:1005:9408
  TR:138:528

Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313:10241
How Urgent the Need to Recycle Solid Waste, Robert D. Bargman, CE:Sept 72:107
  Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE:Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
  TR:138:434
Inactivation of Virus in Sewage, Vincent P. Olivieri, Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419
  TR:138:41
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Land Treatment of Food Processing Wastewaters, Louis C. Gilde, IR3:Sept 73:339:10000
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Power Plant Cooling Systems, George Kinsman, PO2:Oct 72:247:9231
  TR:138:364
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
  TR:138:367
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Scientific and Administrative Criteria for Shallow Waste Disposal, George M. Hughes and Keros Cartwright, CE:Mar 72:70
  TR:138:153
Selecting Solid Waste Disposal Facilities, Billy P. Helms and Robert M. Clark, SA4:Aug 71:443:8280
  TR:138:4
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389
St. Louis Powerplant Burns City Refuse, F. E. Wisely, G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
  TR:138:518
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778

Waste Heat

Impact of Cooling Water on Lake Temperatures, Heinz Stefan, Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241
  TR:138:392

Wastes

Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Regional Interindustry Solid Waste Forecasting Model, Helman I. Stern, EE6:Dec 73:851:10214

Waste Stabilization Ponds

Bacterial Dieoff in Ponds, Ernst M. Davis and Earnest F. Gloyna, SA1:Feb 72:59:8714
  TR:138:193
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
  TR:138:231

Waste Treatment

Advanced Waste Treatment System for Naval Vessels, Syed R. Qasim, Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098
Kinetics of Chlorine Disinfection in an Ecosystem, Leonard W. Hom, SA1:Feb 72:183:8727
  TR:138:231
Problems in Obtaining Adequate Sewage Disinfection, Harvey F. Collins, Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
  TR:138:66
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
  TR:138:367
Sorption Kinetics in Finite-Bath Systems, Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 72:1021:9430
  TR:138:546
St. Louis Cleans up the Mississippi, CE:May 72:61
  Dsc: Eugene T. Jensen, CE:Aug 72:41; S. J. Fenves, F. C. McMichael and C. L. Dym, CE:Aug 72:41; Oskar S. Bray, CE:Sept 72:94; John M. Henderson, CE:Nov 72:62; Edgar T. Moore, Jr., CE:Nov 72:62; LeRoy VanKleeck, CE:Jan 73:57; Harold H. Munger, CE:Jan 73:84
  TR:138:259
Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318
  TR:138:14
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, Mark D. Sobsey, Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3:June 73:245:9778

Waste Water

Dispersion from Recharge Well, Charles W. Lenau, EM2:Apr 72:331:8813
  TR:138:197
Effects of Irradiation of Secondary Effluent, David D. Woodbridge, William R. Garrett and Pricilla C. Cooper, Preprint No.2085, Oct 73
Muskegon Sprays Sewage Effluents on Land, Eugene I. Chaiken, Stephen Polincsik and Carl D. Wilson, CE:May 73:49
  Dsc: Richard D. Harza, CE:July 73:28; William A. Drewry, CE:Sept 73:29; Glenn W. Rehberger, CE:Sept 73:29
Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2:Apr 72:299:8833
  TR:138:321
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204

Wastewater (Pollution)

Wastewater Management Studies by the Corps of Engineers, Willard Roper, Preprint No.1917, Jan 73

Wastewater Disposal

Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
  TR:138:450

Wastewater Treatment

Combined Sewer Overflows, Richard Field, CE:Feb 73:57
Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
  Dsc: Eugene T. Jensen, CE:July 72:69
  TR:138:70
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
  TR:138:327
Optimal Design of Wastewater Treatment Systems by Enumeration, Gene F. Parkin and Richard R. Dague, SA6:Dec 72:833:9403
  TR:138:513
Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
  TR:138:549

Wastewater Use

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
  TR:138:549

Water
Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
Balancing Environmental and Developmental Values, Gary C. Taylor, Preprint No.1910, Jan 73
Better Storm Drainage Facilities at Lower Cost, Herbert G. Poertner, CE:Oct 73:67
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425
TR:138:49
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
TR:138:140
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
TR:138:353
Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
TR:138:465
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73:421:10229
Irrigation Through Subsurface Drains, R. Wayne Skaggs, George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183
TR:138:460
Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443:9212
TR:138:502
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
Water Features on Topographic Maps, Morris M. Thompson, SU1:July 72:1:9018
TR:138:175

Water Allocation (Policy)
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074

Water Application Rate
Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
TR:138:331

Water Balance
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Subsurface Flow in Georgia Coastal Plain, Walter J. Rawls and Loris E. Asmussen, IR3:Sept 73:375:10013

Water Budget
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078

Water Conduits
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
TR:138:307
Dividing Flow in Branches and Wyes, James V. Williamson and Thomas J. Rhone, HY5:May 73:747:9729

Water Conservation
Dry-Type Cooling Towers, Edward A. Cecil, Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
TR:138:92
Watershed Activities in the Northeast, Arthur B. Holland, Preprint No.1889, Jan 73

Water Consumption
Coastal California Evapotranspiration Frequencies, Paul R. Nixon, G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Irrigation Management - A Tool for Agribusiness, Neil W. Schild and Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
TR:138:486
Peak Water Requirements of Crops in Southern Idaho, James L. Wright and Marvin E. Jensen, IR2:June 72:193:8940
TR:138:236
Simulation of Salt Cedar Evapotranspiration, William C. Hughes, IR4:Dec 72:533:9415
TR:138:570
Water Consumption Study for Navajo Plant, Paul Leung and Raymond E. Moore, PO4:Dec 71:749:8564

Water Content
Soil Movements Below a Test Embankment, Robert D. Holtz and Gote Lindskog, PES:72:I-273

Water Demand
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, Jack J. Coe, Chmn., 40:72:
TR:138:512

Water Deprivation
Water Deficits -Irrigation Design and Programming, Robert M. Hagan and J. Ian Stewart, IR2:June 72:215:8955
TR:138:318

Water Distribution
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
TR:138:307
Capital Cost Minimization of Hydraulic Network, Ralf G. Cembrowicz and Joseph J. Harrington, HY3:Mar 73:431:9606
Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600
Computerizing Pipeline Design, William D. Hudson, TE1:Feb 73:73:9547
Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70
Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
TR:138:298
Discrete Gradient Optimization of Water Systems, Chan F. Lam, HY6:June 73:863:9804
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
TR:138:545
Enhancement of Convergence of Pipe Network Solutions, Glen N. Williams, HY7:July 73:1057:9852
Graph-Theoretic Models for Pipe Network Analysis, H. K. Kesavan and M. Chandrashekar, HY2:Feb 72:345:8709
TR:138:167
Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974
Matrix Method for Analysis of Hydraulic Networks, Amir N. Nahavandi and George V. Catanzaro, HY1:Jan 73:47:9472
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Optimization of Dead End Water Distribution Systems, Pramod K. Swamee, Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
Physical Model Study of Border-Strip Irrigation, Graham A. Jobling and A. Keith Turner, IR4:Dec 73:493:10195
Plumbing and Fire Protection, State-of-Art Report 3, George R. Jerus, TB:73:Ia-2-327
Service Systems, Summary Report, Peter Richardson, TB:73:Ia-2-389

Water Distribution (Applied)

Changing Role of Water Conveyance Systems, Gaylord V. Skogerboe and Wynn R. Walker, Preprint No.1880, Jan 73
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, Chan F. Lam and M. L. Wolla, HY2:Feb 72:335:8729
TR:138:173
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, Chan F. Lam and M. L. Wolla, HY3:Mar 72:447:8782
TR:138:207
Distribution Channels with Multiple Outlets, William E. Hart and John Borelli, IR2:June 72:267:8976
TR:138:356
General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
TR:138:396
Least Cost Design of Water Main System in Series, Arun K. Deb, TN: EE3:June 73:405:9764
Long Range Planning for Metropolitan Water Service, Maurice C. Stout and J. Darrell Bakken, Preprint No.1888, Jan 73
Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1: Mar 72:91:8767
TR:138:131

Water Filters

Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
TR:138:143

Water Flow

Aqueducts for the Least Cost Conveyance of Water, Nephi A. Christensen, IR3:Sept 71:483:8381
TR:138:46
Bagnold Approach and Bed-Form Development, Christopher John Pratt, HY1:Jan 73:121:9469
Considerations of Pipeline Tension Tie Problems, Lloyd C. Fowler, Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
TR:138:573
Effects of Inflow Condition on Hydraulic Jump, Hans J. Leutheusser and Viswanathan C. Kartha, HY8: Aug 72:1367:9088
TR:138:401
Estimating Discharge From Superelevation in Bends, Robert P. Apmann, HY1:Jan 73:65:9482
Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
Flow Field Surrounding a Suction Pipe Inlet, David R. Basco and William J. Apgar, HYB:Aug 73:121
Flow-Induced Vibrations of Trashrack Bars, J. W. Fortey and Robert F. Tiry, CE:May 72:44
TR:138:230
Flow Processes in Open Channel Bends, Robert P. Apmann, HY5:May 72:795:8886
TR:138:263
Fluid Flows from Axisymmetric Orifices and Valves, Stevens T.K. Chan and Bruce E. Larock, HY1:Jan 73:81:9465
Furrow Irrigation Criteria for Hawaiian Sugarcane, Cyrus M. Vaziri, Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622
Gradually Varying Two-Layer Stratified Flow in Fiords, Flemming Bo Pedersen, ISSF:Aug 72:415
Hydraulic Control for Flow Distribution, Kuan M. Yao, SA2:Apr 72:275:8808
TR:138:271
The Hydrodynamic Interaction of Thermal Stratification and Reservoir Water Quality, Mark Markovsky, Preprint No.1893, Jan 73
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, Ven Te Chow and Arie Ben-Zvi, HY11:Nov 73:2023:10172
Mean and Turbulent Velocities for Plane Jet, Walter C. Mih and John A. Hoopes, HY7:July 72:1275: 9050
TR:138:378
Mechanics of Sheet Flow Under Simulated Rainfall, Yong Nam Yoon and Harry G. Wenzel, Jr., HY9: Sept 71:1367:8373
TR:138:13
Mississippi River Water for Texas?, Ottoniel Arguello and Raphael G. Kazmann, IR4:Dec 73:441:10212
Obtaining Overland Flow Resistance by Optimization, David L. Schreiber and Donald L. Bender, HY3:Mar 72:429:8773
TR:138:196
Predicting Low Flows and Floods from Ungaged Drainage Basins, John F. Orsborn, HYB:Aug 73: 383
Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Rainfall Effect on Sheet Flow Over Smooth Surface, Hsieh W. Shen and Ruh-Ming Li, HY5:May 73: 771:9733
Regime Equations and Tidal Inlets, Curtis Mason, WW3:Aug 73:393:9952
Resistance Coefficients for Steady Spatially Varied Flow, Ben Chie Yen, Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
TR:138:415
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual, Vito A. Vanoni, Chmn., HY1:Jan 71:101:7786
TR:137:856
Shape Factors in Irrigation Water Advance Equation, Pratap Singh and H. S. Chauhan, IR3:Sept 72:443: 9212
TR:138:502
A Similarity Solution for Circulation in Stratified Fjords, Donald F. Winter, ISSF:Aug 72:717
Solution of Flow Under Sluice Gate, Yong K. Chung, EM1:Feb 72:121:8744
TR:138:152
Supercritical Flow in Rectangular Expansions, John B. Herbich and Peter Walsh, HY9:Sept 72:1691: 9216
TR:138:497
Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611
Turbulence in Shallow Water Flow Under Rainfall, Ismail T. Kisisel, Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468
Unit-Response Method of Open-Channel Flow Routing, Vernon B. Sauer, HY1:Jan 73:179:9499
Variation of Regime Coefficients in Pakistan Canals, Khalid Mahmood, Preprint No.2039, July 73
Warm Water Discharges into Lakes and Reservoirs, Edward Silberman, ISSF:Aug 72:433
Water Management by Shallow Drainage, Royal H. Brooks and John C. Nibler, Preprint No.1868, Jan 73

Water Hammer

Cavitation in Horizontal Pipelines Due to Water Hammer, J. P. Th. Kalkwijk and C. Kranenburg, HY10:Oct 71:1585:8440
TR:138:32
Circulating Water Systems Without Valves, Rudolf J. Wahanik, PO2:Oct 72:187:9264
TR:138:571
Computer Simulation of Waterhammer Effects, George Belonogoff, TE3:Aug 72:521:9104
TR:138:323
Design of PVC Water-Distribution Pipe, Robert T. Hucks, Jr., CE:June 72:70
Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
TR:138:298
New Considerations and Experimental Data on Plastic Pipes, Praxitelis A. Argyropoulos, TN: TE2: May 73:431:9688

Start-Up Performance, Hyatt-Thermalito Power Complex, Haywood G. Dewey, Jr., Robert W. Ehrhart and William H. Young, PO2:Nov 73:405: 10169

Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72: 1117:9014
TR:138:359

Water-Hammer Charts for Various Types of Valves, Don J. Wood and S. E. Jones, HY1:Jan 73:167: 9500

Water Intakes

Partially Precast-Prestressed Intake Structure, Hugh G. McKay, III and Paul C. Gurley, Jr., PO1:May 73:001:9706

Water Law

Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
TR:138:22

General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
TR:138:396

State Water Rights Laws, William R. Walker, Preprint No.1908, Jan 73

State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217

Water Conveyance: Laws, Organization and Efficiency, G. E. Radosevich, Preprint No.1906, Jan 73

Water Loss

Cooling Pond Temperature Versus Size and Water Loss, Bruce A. Tichenor and Alden G. Christianson, PO3:July 71:589:8250
TR:137:1024

Simulation of Post-Irrigation Moisture Movement, Fred J. Molz, IR4:Dec 72:523:9419
TR:138:580

Water Management (Applied)

Attainable Irrigation Efficiencies, Lyman S. Willardson, IR2:June 72:239:8957
TR:138:331

Biological and Chemical Interactions in Reservoirs, Darrell L. King, Preprint No.1884, Jan 73

Competing Values in Water Development -- The Congressional Viewpoint, Daniel A. Dreyfus, Preprint No.1894, Jan 73

Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025

The Concept "Institution" in Water Management Usage, Norman Wengert, Preprint No.1872, Jan 73

Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269

Effect of Transportation Planning on Flood Plain Management, Thomas M. Lee, HY3:Mar 72:475: 8761
TR:138:178

Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105

Flood Plain Management in Montana, Charles Parrett, HYB:Aug 73:85

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

Legal Constraints on Urban Water Systems, Neil S. Grigg, UP2:Sept 73:137:9986

Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, HY11:Nov 73:2113:10135

Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
TR:138:408

A Master Planning Methodology for Urban Drainage, Harold F. Bishop, Preprint No.1887, Jan 73

Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Richard J. Willson, Chmn., IR4:Dec 71: 601:8613
TR:138:76

Operation and Maintenance of Irrigation and Drainage Systems: Section III. - By the Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, Robert L. Taylor, Chmn., IR3:Sept 73: 237:10014

Pilot Study in Flood Plain Management, August C. Mueller and John E. Hoffman, HYB:Aug 73:113

Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241

Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020

Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
TR:138:244

Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658

Systems Approach to River Basin Management, Stephen J. Burges and Brian W. Mar, Preprint No.1877, Jan 73

Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73: 573:9660

Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73: 133:9783

Urban Water Resources -- The Politics of Management, Francis B. Francois, Preprint No.1876, Jan 73

Wastewater Management Studies by the Corps of Engineers, Willard Roper, Preprint No.1917, Jan 73

Water and Society: Social Constraints and Resource Limitations, Evan Vlachos, Preprint No.1904, Jan 73

Water Pipes

The Undersea Aqueduct -- A New Concept in Transportation, Ellis L. Armstrong, TE2:May 72: 303:8893
TR:138:195

Water Plans

Development of a Water Planning Model for Montana, Donald W. Boyd and Theodore T. Williams, HYB:Aug 73:269

Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100

The Public Role of Engineering: the California State Water Project, Keith Roberts, PP1:Jan 73:19:9492

Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732

Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996

Water Pollution

Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71: 321:8545
TR:138:149

Coagulation of Iron Oxide with Alum, Kamlesh K. Jain, Kun Li and Robert R. Rothfus, EE4:Aug 73: 411:9945

Combined Sewer Overflows, Richard Field, CE:Feb 73:57

Dispersion in Nonuniform Seepage, Bruce W. Hunt, HY2:Feb 73:293:9553

Dispersion of Contaminated Sediment Bed Load, Hsieh W. Shen and Hin Fatt Cheong, HY11:Nov 73:1947:10138

Dynamics of Contained Oil Slicks, David L. Wilkinson, HY6:June 72:1013:8950
TR:138:324

Economic Aspects of Sludge Dewatering and Disposal, Edwin R. Bennett, David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Effects of Irradiation of Secondary Effluent, David D. Woodbridge, William R. Garrett and Pricilla C. Cooper, Preprint No.2085, Oct 73
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265: 9757
Esthetic Considerations in Urban General Planning, Wm. H. Claire, UP1:July 72:63:9042
TR:138:404
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, T. Maxworthy, ISSF:Aug 72:613
Experiments with Unconventional Storm Overflows, Y. R. Reddy and John Pickford, EE3:June 73:177: 9794
Field Tests on Transverse Mixing in Rivers, Edward R. Holley and Gerrit Abraham, HY12:Dec 73:2313: 10241
Gradually Varying Two-Layer Stratified Flow, Flemming Bo Pedersen, HY1:Jan 72:257:8679
TR:138:155
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489
Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
TR:138:82
Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
TR:138:407
Laboratory Studies on Feedlot Runoff, Terence J. McGhee, Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205
Land Application of Treated Sewage, Kneeland A. Godfrey, Jr., CE:Sept 73:103
Legal Aspects of Thermal Discharges, Angel J. Martin, Preprint No.2098, Oct 73
Legal Problems in Water Pollution Control, Dwight F. Metzler, Preprint No.1891, Jan 73
Limitations to Length of Contained Oil Slicks, David L. Wilkinson, HY5:May 73:701:9711
Longitudinal Dispersion in Sinuous Channels, Shoju Fukuoka and William W. Aure, HY1:Jan 73:195: 9479
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
TR:138:600
Measurement of Dye Concentrations by Photography, Peter R.B. Ward, EE3:June 73:165: 9768
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73: 257:9753
Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909: 10208
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Negatively Buoyant Jets in a Cross-Flow, Jerry L. Anderson, Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469
Oil Boom for Emergency Harbor Use, Ralph H. Cross and John J. Cunningham, WW1:Feb 73:27: 9531
Oil Booms in Tidal Currents, Ralph H. Cross and David P. Hoult, WW1:Feb 72:25:8719
TR:138:192
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
Parameters Necessary for Analyzing Thermal Bioassays, Robert D. Smith, SA6:Dec 72:973:9440
TR:138:569
Pneumatic Barrier and Beach Pollution, Martin S. Hertzendorf, Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
TR:138:304
Pollution Potential of a Sanitary Landfill Near Tucson, L. G. Wilson and Gary G. Small, HYB: Aug 73:427
Prediction of Mixing Lengths for River Flow Gaging, Peter R.B. Ward, HY7:July 73:1069:9856
Relative Diffusion in Nonisotropic Turbulence, Jacob Odgaard, HY1:Jan 73:239:9503
Residuals in Manufacture of Paper, Blair T. Bower, George O.G. Lof and William M. Hearon, EE1:Feb 73:1:9543
Statewide Management-What Does the Future Hold?, Frank A. Butrico and James B. Coulter, SA1:Feb 72:247:8739
TR:138:244
Stilling Pond Storm Overflow Studies, Y. R. Reddy and John Pickford, SA4:Aug 72:609:9093
TR:138:428
Stochastic Model of BOD and OD in Segmented Estuary, William R. Schofield and Richard G. Krutchkoff, SA5:Oct 72:745:9296
TR:138:488
Surface Jet at Small Richardson Numbers, Frank Engelund and Flemming Bo Pedersen, HY3:Mar 73:405:9588
Tidal Exchange at Golden Gate, Denny S. Parker, Dan P. Norris and Austin W. Nelson, SA2:Apr 72: 305:8810
TR:138:276
Tracer Simulation of Soluble Waste Concentration, Nobuhiro Yotsukura and Frederick A. Kilpatrick, EE4:Aug 73:499:9947
Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318
TR:138:14
Velocity Profiles and Dispersion in Estuarine Flow, Burton A. Segall and Erik R. Gidlund, SA4:Aug 72:647:9109
TR:138:435
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73: 315
Water Resources Development: Tocks Island Lake, John A. Burnes, Preprint No.2081, Oct 73

Water Pollution Control

Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
TR:138:142
Computer Use on an Environmental Engineering Project, Robert C. Feldman, CE:Jan 73:60
Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
Dsc: William J. Bauer, CE:Aug 72:46; Sam G. Baladi, CE:Oct 72:66
TR:138:118
Design Standards for Wastewater Treatment Systems, Robert A. Canham and Louis L. Guy, Jr., CE:Feb 72:40
Dsc: Eugene T. Jensen, CE:July 72:69
TR:138:70
Federal Reorganization to Protect the Environment, John F. Wall and Leonard B. Dworsky, PP2:Apr 72:227:8829
TR:138:289
National Water Commission Report, Charles Luce, Ted Schad and Victor Koelzer, CE:May 73:70
Oil Booms in Tidal Currents, Ralph H. Cross and David P. Hoult, WW1:Feb 72:25:8719
TR:138:192
Putting Pollution Problems In Perspective, Charles L. Gould, CE:Aug 73:64
Dsc: Harold E. Weber, CE:Nov 73:22

Research Needs in Environmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE6:Dec 73:801:10198
Swimming Again in Lake Washington, Walter E. Jessup, CE:Mar 72:60
TR:138:139
Water Pollution Control by Hydraulic Aeration, Hans J. Leutheusser and Francois J. Resch, HYB:Aug 73:315

Water Pollution Effects
Cleanup of San Diego Bay, Roy E. Dodson, CE:Mar 72:62
TR:138:142

Water Pressure
Design Parameters for Water Jet Tunneling Machines, Charles Arthur Hahs, RM14:73:555
Earthquake Related Stresses at Rangely, Colorado, Bezalel C. Haimson, RM14:73:689
Reattaching Flow Downstream of Leaf Gate, Rangaswami Narayanan and Alan J. Reynolds, HY5:May 72:913:8919
TR:138:301
Rock Drilling with Pulsed High-Velocity Water Jets, Paul F. Gnirk and William H. Grams, RM14:73:589
Start-up Pressures in Short Pump Discharge Lines, Irving Joseph and Frank A. Hamill, HY7:July 72:1117:9014
TR:138:359
Storage of Oil in Unlined Caverns in Different Types of Rock, Carl-Olof Morfeldt, RM14:73:409
Water Jet Cutting Related to Jet and Rock Properties, David A. Summers, RM14:73:569

Waterproofing
Flood Proofing Regulations for Building Codes, Armando C. Lardieri, Preprint No.1915, Jan 73
Oil Based Fluid Corrosion-Proofs Gas Line, Buford Mizell, CE:June 72:54
TR:138:280

Water Purification
Bromine and Bromamine Disinfection Chemistry, J. Donald Johnson and Ragnar Overby, SA5:Oct 71:617:8425
TR:138:49
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
Dsc: Otto W. Steinhardt, CE:July 73:22

Water Quality
Basin Management Techniques for Sewerage Agencies, Charles V. Gibbs and Allan L. Poole, SA3:June 72:491:8960
TR:138:375
Changing Role of Water Conveyance Systems, Gaylord V. Skogerboe and Wynn R. Walker, Preprint No.1880, Jan 73
Civil Engineering Applications of Remote Sensing, David J. Barr and Wesley P. James, Preprint No.2072, Oct 73
Clean Water -- An Environmental Challenge, Percy H. McGauhey, SA2:Apr 72:375:8812
TR:138:290
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227
Dilution of Buoyant Two-Dimensional Surface Discharges, Heinz Stefan, HY1:Jan 72:71:8653
TR:138:124
Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
TR:138:222
Effects of Coastal Water Disposal in Hawaii, Gordon L. Dugan and Reginald H.F. Young, EE5:Oct 73:691:10046
Environmental Aspects of Dredging in Estuaries, Herbert L. Windom, WW4:Nov 72:475:9342
TR:138:529
Environmental Aspects of Jacksonville Harbor Project, Wilbert S. Eisenberg, WW2:May 73:265:9757
Environmental Quality in California, Arthur F. Pillsbury, CE:July 73:50
Dsc: Raphael G. Kazmann, CE:Dec 73:22
Estimation Theory Applications to Design of Water Quality Monitoring Systems, Stephen F. Moore, HY5:May 73:815:9755
Eutrophication Analysis: A Multivariate Approach, Earl E. Shannon and Patrick L. Brezonik, SA1:Feb 72:37:8735
TR:138:237
Ground Water Quality, West Jefferson County, Colo., James E. Biesecker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417
The Hydrodynamic Interaction of Thermal Stratification and Reservoir Water Quality, Mark Markovsky, Preprint No.1893, Jan 73
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472
Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, Fred A. Limpert, Chmn., SA3:June 72:569:8987
TR:138:407
In-Line Structure Stores and Treats Combined Overflows, Theodore G. Biehl and David M. Waring, CE:Sept 72:62
Dsc: Floyd A. Skow, CE:Jan 73:84
TR:138:398
Legal Problems in Water Pollution Control, Dwight F. Metzler, Preprint No.1891, Jan 73
Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
TR:138:600
Mercury Distribution in Estuarine-Nearshore Environment, Herbert L. Windom, WW2:May 73:257:9753
Multigoal Water Quality Planning Model, David E. Pingry and Andrew B. Whinston, EE6:Dec 73:909:10208
Multilevel Control of Multipollutant System, James W. Foley and Yacov Y. Haimes, EE3:June 73:253:9795
Multivariate Synthetic Hydrology: A Correction, P. Enda O'Connell, TN: HY12:Dec 73:2393:10192
No Innovation in Wastewater Treatment, Russell L. Culp, CE:July 72:46
TR:138:327
Nonlinear Parameter Estimation in Water Quality Modeling, J. S. Shastry, L. T. Fan and L. E. Erickson, EE3:June 73:315:9798
Parameters Influencing Minimum Streamflow, Thomas A. Wesche and Paul A. Rechard, HYB:Aug 73:21
Predicting Quality Effects of Pumped Storage, Carl W. Chen and Gerald T. Orlob, PO1:June 72:65:8984
TR:138:255
Prediction of Water Quality in Stratified Reservoirs, Mark Markofsky and Donald R.F. Harleman, HY5:May 73:729:9730
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Research Needs for Advanced Waste Treatment, Francis M. Middleton and Robert L. Stenburg, SA3:June 72:515:8956
TR:138:367
Response of *Anabaena* to pH, Carbon, and Phosphorus, John D. Keenan, EE5:Oct 73:607:10048
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12:Dec 72:2087:9426
TR:138:578

Simulation of Impoundment Turbidity Structure, Darrell G. Fontane, Preprint No.2083, Oct 73
Stochastic Analysis of Air and Water Temperatures, Charles C.S. Song, Arthur F. Pabst and C. Edward Bowers, EE6:Dec 73:785:10209
Stream Temperature Prediction Under Reduced Flow, William L. Morse, HY6:June 72:1031:8962
TR:138:332
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Temperature Prediction in Stratified Reservoirs, Wayne C. Huber, Donald R.F. Harleman and Patrick J. Ryan, HY4:Apr 72:645:8839
TR:138:234
Undesirable Plant Responses with Sewage Irrigation, Dwight C. Baier and Wilton B. Fryer, IR2:June 73:133:9783
Wastewater Management Studies by the Corps of Engineers, Willard Roper, EE5:Oct 73:653:10044
Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
TR:138:450
Water Quality Simulation Model, George R. Grantham, John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569:8429
TR:138:57
Water Resources Development: Tocks Island Lake, John A. Burnes, Preprint No.2081, Oct 73

Water Quality Control

Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
Dsc: William J. Bauer, CE:Aug 72:46; Sam G. Baladi, CE:Oct 72:66
TR:138:118
Systems Approach to Water Quality Management, Gerald T. Orlob and Bill B. Dendy, HY4:Apr 73:573:9660
Water Pollution Control Institutions, William Whipple, Jr., PP1:Jan 72:13:8667
TR:138:215

Water Rates

Industrial Waste Charges, James A. Seagraves, EE6:Dec 73:873:10203
Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52

Water Reclamation

Treatment of Refinery Waste by Physicochemical Processes, Ju-Chang Huang and Michael G. Hardie, SA4:Aug 71:467:8318
TR:138:14
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204

Water Requirements

Water Requirements of Rostered Irrigation Schemes, Patrick D. Fitzgerald and Gregory C. Arnold, IR1:Mar 72:91:8767
TR:138:131

Water Resources

Aerial Photography for Water Resource Studies, Ralph W. Kiefer and James P. Scherz, SU2:Nov 71:321:8545
TR:138:149
Application of Simulation Techniques to Small Project Analyses, Milton L. Holloway and Lial F. Tischler, Preprint No.1907, Jan 73
Assessing Social Consequences of Water Deficiencies, William K. Johnson, IR4:Dec 71:547:8566
TR:138:60
Balancing Environmental and Developmental Values, Gary C. Taylor, Preprint No.1910, Jan 73
Biological and Chemical Interactions in Reservoirs, Darrell L. King, Preprint No.1884, Jan 73
Can Engineering Forecasters Effect Water Law?, George W. Reid, E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
TR:138:22
Chance-Constrained Model of System of Reservoirs, Guy L. Curry, James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72:585:9413
TR:138:562
Competing Values in Water Development -- The Congressional Viewpoint, Daniel A. Dreyfus, Preprint No.1894, Jan 73
Competing Values in Water Development, Daniel A. Dreyfus, HY9:Sept 73:1599:10025
The Concept "Institution" in Water Management Usage, Norman Wengert, Preprint No.1872, Jan 73
Cost-Effectiveness Analysis of Wastewater Reuses, Stephen C. Ko and Lucien Duckstein, SA6:Dec 72:869:9434
TR:138:552
Environmental Impact and Hydraulic Structures -- Current and Predicted, Danny L. King, Glenn R. Drummond and David W. McDougall, Preprint No.1913, Jan 73
The Environment and the Law, Remy R.L. de Jong, Preprint No.2071, Oct 73
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, Howard L. Sargent, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389
Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105
Flood Proofing Regulations for Building Codes, Armando C. Lardieri, Preprint No.1915, Jan 73
Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73:421:10229
Geothermal Resource Investigations, Lloyd R. Porter, Preprint No.1875, Jan 73
Hele-Shaw Model of Long Island Aquifer System, Michael A. Collins, Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
TR:138:489
Impact of Drought on New Jersey's Water Resources, Peter W. Anderson, Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
TR:138:472
Information Content of Time-Variant Data, Vulli L. Gupta, HY3:Mar 73:383:9615
Job Impact of Alternatives to Corps of Engineers Projects, Bruce M. Hannon and Roger H. Bezdek, PP4:Oct 73:521:10080
Legal Problems in Regulating Flood Hazard Areas, Ernst Liebman, Preprint No.1869, Jan 73
Legal Problems in Water Pollution Control, Dwight F. Metzler, Preprint No.1891, Jan 73
Long Range Planning for Metropolitan Water Service, Maurice C. Stout and J. Darrell Bakken, Preprint No.1888, Jan 73
A Master Planning Methodology for Urban Drainage, Harold F. Bishop, Preprint No.1887, Jan 73
Mississippi River Water for Texas, Ottoniel Arguello and Raphael G. Kazmann, Preprint No.1867, Jan 73
Multireservoir Optimization Model, James S. Windsor and Ven Te Chow, HY10:Oct 72:1827:9304
TR:138:532
Nader's Raiders Versus California Water Project, James H. Krieger, PP1:Jan 73:39:9490
National Water Commission Report, Charles Luce, Ted Schad and Victor Koelzer, CE:May 73:70
Need for Metropolitan Water Balance Inventories, Murray B. McPherson, HY10:Oct 73:1837:10078
Optimal Control of Nitrogen Losses from Land Disposal Areas, Douglas A. Haith, EE6:Dec 73:923:10200
Optimal Sequencing of Capacity Expansion Projects, Thomas L. Morin, HY9:Sept 73:1605:9972
Optimum Operations Model for Shasta-Trinity System, Dan M. Fults and Lawrence F. Hancock, HY9:Sept 72:1497:9176
TR:138:450
Planning for Resources--Environmental Conservation, Roy F. Bessey, HY11:Nov 73:2061:10173

Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
TR:138:212
A Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., Preprint No.1896, Jan 73
Present and Future Salinity of Colorado River, Myron B. Holburt and Vernon E. Valentine, HY3: Mar 72:503:8769
TR:138:192
Principles and Standards for Water and Land Resources Planning, W. Don Maughn, PP3:July 72: 311:9059
TR:138:452
Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52
Public Participation in Urban Water Planning, Thomas C. Ferrara, Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585
Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076
Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2: Apr 72:299:8833
TR:138:321
River Systems Transition Function and Operation Study, Chin-shu Liu, HY6:June 73:889:9806
Search Technique for Project Sequencing, C. Anthony Tsou, Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732
Status of Water Resource Systems Analysis, Leo R. Beard, HY4:Apr 73:559:9658
Subsurface Wastewater Injection, Florida, Matthew I. Kaufman, IR1:Mar 73:53:9598
Surveys Required to Design Nonstructural Measures, L. Douglas James, Preprint No.1881, Jan 73
Systems Analysis and Irrigation Planning, Douglas V. Smith, IR1:Mar 73:89:9625
Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659
Systems Approach to River Basin Management, Stephen J. Burges and Brian W. Mar, Preprint No.1877, Jan 73
Tocks Island Lake Project -- Panel Discussion, Gerald T. McCarthy, Preprint No.2079, Oct 73
Urban Water Resources -- The Politics of Management, Francis B. Francois, Preprint No.1876, Jan 73
Urban Water Resources - The Politics of Management, Francis B Francois, PP3:July 73:365: 9879
Use of Systems Analysis in Water Resources Planning, William K. Johnson, HY9:Sept 72:1543: 9174
TR:138:446
Wastewater Management Studies by the Corps of Engineers, Willard Roper, Preprint No.1917, Jan 73
Water Conveyance: Laws, Organization and Efficiency, G. E. Radosevich, Preprint No.1906, Jan 73
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water Resources Development: Tocks Island Lake, John A. Burnes, Preprint No.2081, Oct 73
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
TR:138:407
Watershed Activities in the Northeast, Arthur B. Holland, Preprint No.1889, Jan 73
Watershed as a Semi-Infinite Storage Reservoir, Vit Klemes, Preprint No.1895, Jan 73
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9: Sept 72:1515:9187
TR:138:466
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054
TR:138:605

Water Resources Development
California Water Project, William R. Gianelli and Robert B. Jansen, CE:June 72:78
TR:138:307
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Geothermal Resource Investigations, Lloyd R. Porter, Preprint No.1875, Jan 73
Integrating All Aspects of Regional Water Systems, Irving K. Fox, HY4:Apr 73:599:9662
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73: 1777:10088
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
TR:138:528

Water Resources Management
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85

Water Reuse
The Prairie Plan, Frank L. Kudrna, UP2:Sept 73:205: 9971
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
TR:138:358
Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
TR:138:450
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
TR:138:407

Water Rights
General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, Floyd A. Bishop, Chmn., IR2:June 72:317:8996
TR:138:396
Industrial Waste Charges, James A. Seagraves, EE6: Dec 73:873:10203
State Water Rights Laws, William R. Walker, Preprint No.1908, Jan 73
State Water Rights Laws, William R. Walker, IR4: Dec 73:449:10217
Water Conveyance: Laws, Organization and Efficiency, G. E. Radosevich, Preprint No.1906, Jan 73

Water Sampling
Ground Water Quality, West Jefferson County, Colo., James E. Bieseeker, Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417

Watershed Management
Effect of Tall Vegetation on Flow and Sediment, Ruh-Ming Li and Hsieh W. Shen, HY5:May 73: 793:9748
Flood-Control Plan for Minnesota Watershed, Eugene A. Hickok, CE:Apr 73:85
Simulation in Watershed Planning, Stuart G. Walesh, HY9:Sept 73:1383:10020

Watersheds
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie-Ling Chiang, HYB:Aug 73:371
Improved Prediction of Storm Runoff in Mountain Watersheds, Richard H. Hawkins, TN: IR4:Dec 73: 519:10188
A Model to Predict Mean Annual Watershed Discharge, Steven I. Majtenyi, HY7:July 72:1171: 9034
TR:138:373
Rapid Creek Watershed, Donald A. Thorson, HYB: Aug 73:449
Sediment Yield Computed With Universal Equation, Jimmy R. Williams and Harold D. Berndt, HY12: Dec 72:2087:9426
TR:138:578

Thermal Capacity of Our Nation's Waterways, D. E. Peterson, John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736
University of Cincinnati Urban Runoff Model, Constantine N. Papadakis and Herbert C. Preul, HY10:Oct 72:1789:9298
  TR:138:523
Volume Weight of Reservoir Sediment in Forested Areas, Walter F. Megahan, HY8:Aug 72:1335:9129
  TR:138:435
Watershed Activities in the Northeast, Arthur B. Holland, Preprint No.1889, Jan 73
Watershed as a Semi-Infinite Storage Reservoir, Vit Klemes, Preprint No.1895, Jan 73
Watershed as Semiinfinite Storage Reservoir, Vit Klemes, IR4:Dec 73:477:10213

Water Storage
Environmental Impacts of Reservoirs -- A Case Study, Leonard Ortolano, HYB:Aug 73:93
Regulation of Low Streamflows, Charles R. Ownbey, HYB:Aug 73:241
Treated Water Storage for Design Capacity Reduction, John Borrelli and Thomas M. Rachford, EE4:Aug 73:517:9941

Water Supply
Artificial Recharge in the Urban Environment, Verne H. Scott, Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, Miroslaw Gorczyca, SA6:Dec 72:987:9458
  TR:138:580
Design of a Hydroelectric Powerplant in an Area of High Seismicity, Marian Pona and A. B. Arnold, Preprint No.1959, Apr 73
Development Planning of Laguna de Bay -- Philippines, Robert H. Gedney, HY12:Dec 73:2367:10227
Drinking Water: Problems for the 70's, James H. McDermott, CE:Sept 73:100
Drought Severity and Water Supply Dependability, Leo R. Beard and Harold E. Kubik, IR3:Sept 72:433:9219
  TR:138:539
Dual-Purpose Desalting in Pacific Southwest, Sam Shiozawa, HY1:Jan 72:201:8673
  TR:138:140
Early Engineering in the American Southwest, Steven R. Rae and Joseph E. Minor, PP2:Apr 73:143:9670
Economics of Water Quality and Wastewater Control, Fred E. Case, SA2:Apr 72:427:8856
  TR:138:353
Efficient Algorithm For Distribution Networks, Pierre F. Lemieux, HY11:Nov 72:1911:9336
  TR:138:545
Evaporation Reduction with Reflective Covers, Keith R. Cooley and Lloyd E. Myers, IR3:Sept 73:353:9982
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136
Homeowner Decision Making in Public Water Supply, Kenneth J. Cypra, UP1:Mar 73:97:9597
Impact of Multiple-Purpose Reservoir System on Regional Environment, Edward H. Lesesne, PP3:July 72:373:9029
  TR:138:370
Least-Cost Design of Water Distribution Systems, Thawat Watanatada, HY9:Sept 73:1497:9974
Long Range Planning for Metropolitan Water Service, Maurice C. Stout and J. Darrell Bakken, Preprint No.1888, Jan 73
Mathematical Model for Rate Studies, Kuan M. Yao, SA4:Aug 72:635:9146
  TR:138:442
Municipal Water Planning--Mixed Integer Approach, Trevor C. Hughes and Calvin G. Clyde, HY11:Nov 73:2079:10131
Nitrate Removed at Water Treatment Plant, John C. Gregg, CE:Apr 73:45
  Dsc: Otto W. Steinhardt, CE:July 73:22
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, I. I. Makarov and S. L. Zisman, ISSF:Aug 72:371
Optimal Allocation of Water Resources in Utah, Calvin G. Clyde and Alton B. King, HY10:Oct 73:1777:10088
Potential United States Water-Supply Development, Clayton H. Hardison, IR3:Sept 72:479:9214
  TR:138:528
Santa Ana Valley Pipeline as a Structure, Malcolm N. Stephens and James U. McDaniel, Preprint No.1946, Apr 73
Tocks Island Lake Project -- Panel Discussion, Gerald T. McCarthy, Preprint No.2079, Oct 73
The Urban Growth Syndrome, William H. Wisely, PP3:July 72:323:9027
  TR:138:358
Water Planning Models in North Atlantic Study, David C. Major, UP2:Sept 73:131:9996
Water Reclamation in Los Angeles, Robert D. Bargman, George W. Adrian and Donald C. Tillman, EE6:Dec 73:939:10204
Watershed Activities in the Northeast, Arthur B. Holland, Preprint No.1889, Jan 73

Water Supply Forecasting
Agricultural Water Allocation, Land Use, and Policy, Earl O. Heady, Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074

Water Surface
Photogrammetry and Hydraulic Surfaces, Wolfgang Faig, SU2:Nov 72:145:9337
  TR:138:525

Water Surface Profiles
Unified Nondimensional Formulation for Open Channel Flow, Paul Minton and Rodney J. Sobey, HY1:Jan 73:1:9468

Water Table
Moving Water Tables in Tile-Drained Soils, Nazar M. Awan and Terence O'Donnell, IR3:Sept 72:459:9167
  TR:138:411
Pump Drainage in Carolina Bays, Coy W. Doty, IR4:Dec 73:465:10244

Water Temperature
The Dissipation of Excess Heat from Water Systems, Harvey E. Jobson, PO1:May 73:089:9702

Water Towers
Esthetics in Water Towers, John F. Klus, CE:Sept 73:84

Water Transportation
"Quo Vadis", Edward V. Kiley, PP1:Jan 73:85:9495

Water Treatment
Amoebic Cysticidal Properties of Halogens in Water, Richard Stringer and Cornelius W. Kruse, SA6:Dec 71:801:8567
  TR:138:98
Backwashing of Granular Water Filters, Thomas R. Camp, S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
  TR:138:143
Corps of Engineers Plans Regional Water Quality Program, William Whipple, Jr., CE:Mar 72:37
  Dsc: William J. Bauer, CE:Aug 72:46; Sam G. Baladi, CE:Oct 72:66
  TR:138:118
Design of High-Rate Settlers, Kuan M. Yao, EE5:Oct 73:621:10051
Desorption and Retentivity of Filtering Materials, Andre Leclerc and Truong Tri Vu, SA6:Dec 72:937:9401
  TR:138:498

Effect of Calcium Bicarbonate on Disinfection by Halogens, Lawrence N. Kuzminski, Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
TR:138:222

Herbicidal Control of Aquatic Plants, Edward O. Gangstad, SA2:Apr 72:397:8851
TR:138:341

Integrated Approach to Problem of Viruses in Water, Gerald Berg, SA6:Dec 71:867:8590
TR:138:122

Orange County Water District's Water Factory 21, James R. Cofer, IR4:Dec 72:553:9405
TR:138:549

Research Needs in Environmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, by the Environmental Engineering Research Committee of the Environmental Engineering Division, Kay H. Jones, Chmn., EE6:Dec 73:801:10198

Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, Jack M. Betz, Chmn., SA2: Apr 72:299:8833
TR:138:321

Theory of Flocculation for Continuous Flow System, Kenneth J. Ives and Anand G. Bhole, EE1:Feb 73: 17:9540

Tracer Dispersion of High Rate Settling Tanks, Hassan M. El-Baroudi and David R. Fuller, EE3: June 73:347:9820

Wastewater Reclamation in Southern California, Jack J. Coe and Finley B. Laverty, IR3:Sept 72:419:9178
TR:138:450

Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103
TR:138:430

Water Treatment Plants

Implications of Nitrogenous BOD in Treatment Plant Design, Russell C. Mt. Pleasant and Warren Schlickenrieder, SA5:Oct 71:709:8469
TR:138:82

Windhoek Reclaiming Sewage for Drinking Water, A. J. Clayton and P. J. Pybus, CE:Sept 72:103
TR:138:430

Water Tunnels

Edmonston Pumping Plant: Nation's Mightiest, Robert B. Jansen, CE:Oct 72:67
TR:138:465

Hydraulic Elements for USBR Standard Horseshoe Tunnel, Walter W. Hu, TN: TE4:Nov 73:973:10117

Systems Analysis of Water Distribution Networks, Richard de Neufville, John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
TR:138:105

Water Tunnels (Conveyance)

Transient Flow in Free-Surface, Pressurized Systems, David C. Wiggert, HY1:Jan 72:11:8628
TR:138:87

Water Use

Functions to Predict Effects of Crop Water Deficits, J. Ian Stewart and Robert M. Hagan, IR4:Dec 73: 421:10229

National Water Commission Report, Charles Luce, Ted Schad and Victor Koelzer, CE:May 73:70

Systems Analysis in Irrigation and Drainage, Warren A. Hall, HY4:Apr 73:567:9659

Water Resources in the Future: Directions and Prospects, Joseph L. Fisher, PP3:July 72:343:9040
TR:138:407

Water Users

Potential of Precipitation Modification, Eugene J. Aubert, Gurbachan P. Malhotra and D. B. Spiegler, IR1:Mar 72:49:8787
TR:138:212

Quality Related Costs of Regional Water Users, Michael B. Sonnen, HY10:Oct 73:1849:10076

Water Vapor

Wet-Type Hyperbolic Cooling Towers, Paul Rogers, CE:May 72:70
TR:138:262

Water Waves

Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954

Damping of Water Waves Over Porous Bed, Philip L-F Liu, HY12:Dec 73:2263:10218

Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939

Mass Transport by Waves and Offshore Sand Bedforms, Trevor G. Carter, Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699

On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224

Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754

Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, Joseph M. Colonell, Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131

Waves Generated by Horizontal Motion of a Wall, Madan M. Das and Robert L. Wiegel, WW1:Feb 72:49:8707
TR:138:137

Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Waterways

Congestion in Marina Entrance Channels Due to Sailboats, Allen L. Ely and John M. Nichol, WW4: Nov 73:415:10137

Consolidation Characteristics of Dredging Slurries, Abdelsalm M. Salem and Raymond J. Krizek, WW4:Nov 73:439:10157

Design of Ship Channels and Maneuvering Areas, Casimir J. Kray, WW1:Feb 73:89:9559

Design Versus Ecology in St. Johns and Indian Rivers, Harold A. Scott, WW4:Nov 72:425:9314
TR:138:475

Laboratory Study of Degradation and Aggradation, Suryanarayana Bhamidipaty and Hsieh W. Shen, WW4:Nov 71:615:8493
TR:138:40

Management Problems in Flood Plain Areas, Thomas M. Lee, WW3:Aug 72:357:9121
TR:138:408

Mardyck Lock Acts as Salt-Water Barrier, Ch. Blanchet and B. Quetin, WW4:Nov 72:561:9387
TR:138:600

Optimizing the Supply of Inland Water Transport, John F. Hoffmeister, III and Richard de Neufville, WW3:Aug 73:293:9926

Planing Characteristics of Fast-Water Buoys, Michael E. McCormick and David Folsom, WW4:Nov 73: 485:10179

Predicting Stages on Sand-Bed Rivers, Daryl B. Simons, Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731

Reducing Ice Formation at Navigation Dams, Henry W. Harich, WW3:Aug 72:343:9114
TR:138:387

Simulation of Long Waves in Branching Waterways, Robert F. Henry, HY4:Apr 72:609:8831
TR:138:224

Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
TR:138:544

Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341: 9931

Water Waves Produced by Ships, Robert M. Sorensen, WW2:May 73:245:9754

1,200-Ft Graving Dock, Frederick E. Krauss and George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Waterways (Transportation)
Feasibility Study of Mississippi River Crossings -- Interstate Route 410, T. Robert Kealey, Preprint No.2003, Apr 73
Mathematical Model of River Hooghly, Donald M. McDowell and David Prandle, WW2:May 72:225:8866
TR:138:209
Restructuring Freight Transportation in Chicago, James Robert Blaze, TE3:Aug 72:577:9115
TR:138:353

Waterways (Watercourses)
An Engineer Looks at Drainage Law, Alfred R. Pagan, PP4:Oct 72:535:9255
TR:138:511

Waterways Experiment Station
Hydraulicians are Human Too, Hunter Rouse, HY5:May 72:875:8877
TR:138:257

Water Wells
Orthonormalization Applied to Ground-Water Flows, John P. Zarling, HY2:Feb 73:285:9546
Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176

Waterworks
Federal Drinking Water Standards - Past, Present, and Future, James H. McDermott, EE4:Aug 73:469:9924
Underground Pipeline Corrosion, William R. Kinsey, TE1:Feb 73:167:9574

Wave Action
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547
TR:138:101
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931
Wave Forces on Cylinders Near a Plane Boundary, Tokuo Yamamoto, John H. Nath and Larry S. Slotta, HYB:Aug 73:155
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935

Wave Dispersion
Wave Diffraction by Rigid Foundations, Martin A. Salmon, TN: EM4:Aug 73:902:9898
Waves in a Harbor with Protruding Breakwaters, Chiang C. Mei and Ricardo V. Petroni, WW2:May 73:209:9700

Wave Energy
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
TR:138:60
Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
TR:138:542
Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879
TR:138:281
Resonant Response of Offshore Structures, Lawrence G. Selna and David Cho, WW1:Feb 72:15:8708
TR:138:155
Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698

Wave Equations
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Probabilities For Highest Wave In Hurricane, Leon E. Borgman, WW2:May 73:185:9705
Wave Forces on Submerged Objects of Symmetry, Subrata K. Chakrabarti, WW2:May 73:147:9698

Wave Functions
Spectra of Thermally Stratified Turbulent Flows, Dimitar Enchev Syrakov, ISSF:Aug 72:673

Wave Generation
Exact Nonlinear Model of Wave Generator, Roger H. Multer, HY1:Jan 73:31:9467

Wave Height
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, Yvon Ouellet, WW1:Feb 72:1:8693
TR:138:119
Extreme Wave Height Distributions Over Oceans, Herbert C.S. Thom, WW3:Aug 73:355:9939
Maximum Breaker Height, J. Richard Weggel, WW4:Nov 72:529:9384
TR:138:586
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547
TR:138:101
Spectral Resolution of Breakwater Reflected Waves, Edward B. Thornton and Ronald J. Calhoun, WW4:Nov 72:443:9318
TR:138:512
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Wavelength
Asymptotic Solutions of Resonances in Harbors With Basins, Chih-Lan Su, WW3:Aug 73:375:9954
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547
TR:138:101

Wavelengths
Determination of Kennedy's Parameter j for Dunes, M. Selim Yalin, TN: HY8:Aug 73:1287:9910

Wave Period
Regular Wave Effects on Walls Made of Cylinders, G. D. Khaskhachikh and O. M. Vanchagov, WW4:Nov 71:735:8547
TR:138:101

Wave Propagation
Acoustic Methods for Monitoring Failure in Rock, Richard E. Thill, RM14:73:649
Finite Element Method Accuracy for Wave Propagation Problems, Roger L. Kuhlemeyer and John Lysmer, TN: SM5:May 73:421:9703
Impact and Wave Propagation in Composite Plates, Bruno Atzori and Richard B. Nelson, Preprint No.2091, Oct 73
Influence of Constitutive Models on Ground Motion Predictions, Melvin L. Baron, Ivan Nelson and Ivan Sandler, EM6:Dec 73:1181:10210
Long Wave Propagation in Idealized Estuary, Donald W. Knight, HY7:July 73:993:9842
Oscillations in Harbors with Connected Basins, Jiin-Jen Lee and Fredric Raichlen, WW3:Aug 72:311:9094
TR:138:351
Stress Propagation in a Frequency Dependent Material, Raymond N. Yong, Jean C. Dutertre and Raymond J. Krizek, Preprint No.2020, Apr 73
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, Jamshid Ghaboussi and Edward L. Wilson, EM4:Aug 72:947:9152
TR:138:425

Wave Runup
Maximum Breaker Height, J. Richard Weggel, WW4:Nov 72:529:9384
TR:138:586

Waves
Adjustment of Friction in Hydraulic Models of Lakes, Jong-Chiang Shiau and Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534

Best Shore Protection: Nature's Own Dunes, Ian McHarg, CE:Sept 72:66
  Dsc: George C. Govatos, CE:Mar 73:75
  TR:138:400
Dam-Break Flood in a Prismatic Dry Channel, John G. Sakkas and Theodor S. Strelkoff, HY12:Dec 73:2195:10233
Laboratory Study of Lift Forces on Circular Piles, Devidas D. Bidde, WW4:Nov 71:595:8495
  TR:138:60
Maximum Breaker Height, J. Richard Weggel, WW4:Nov 72:529:9384
  TR:138:586
Mechanical Excitation of Offshore Tower Model, Charles P. Rains and Subrata K. Chakrabarti, WW1:Feb 72:35:8713
  TR:138:172
Nonlinear Wave Forces on a Vertical Cylinder, Subrata K. Chakrabarti, HY11:Nov 72:1895:9333
  TR:138:542
On Breaking of Internal Gravity Waves, W. O. Criminale, Jr., ISSF:Aug 72:175
Short Wave Models with Fixed Bed Boundary Layer, J. William Kamphuis, WW4:Nov 73:471:10122
Statistical Properties of Missouri River Bed Forms, V.S. Shastri Annambhotla, William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
  TR:138:544
Statistical Properties of Wave-Current Force, Chi C. Tung and Norden E. Huang, WW3:Aug 73:341:9931
Wave Forces on Pile Including Diffraction and Viscous Effects, Subrata K. Chakrabarti, HY8:Aug 73:1219:9935
Wave Forces on Submerged Bodies, C. J. Garrison and P. Y. Chow, WW3:Aug 72:375:9098
  TR:138:371
Waves Off Manalore Harbor - West Coast of India, Jade Dattatri, WW1:Feb 73:39:9532

Wave Spectrum
Approximately Linear Low-Pass Wave Filters, William James, WW1:Feb 73:59:9534

Weather
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Weather Forecasting
National Weather Service River Forecasting System, Eric A. Anderson and John C. Monro, Preprint No.1879, Jan 73

Weathering
Foundation and Abutment Treatment for Rockfill Dams, Richard C. Acker and Jack C. Jones, SM10:Oct 72:995:9303
  TR:138:494
Rock Property Changes Under Air Pollutant Action, D. Joseph Hagerty and C. Robert Ullrich, RM14:73:127

Weather Modification
Cloud Seeding Interpreted Through Atmospheric Water Balance, James L. Rasmussen, IR4:Dec 72:585:9413
  TR:138:562
Colorado Pilot Project: Design Hydrometeorology, Patrick A. Hurley, HY5:May 72:811:8901
  TR:138:291
Inadvertent Weather and Precipitation Modification by Urbanization, Stanley A. Changnon, Jr., IR1:Mar 73:27:9608
A Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., Preprint No.1896, Jan 73
Precipitation Enhancement Program for Illinois, Stanley A. Changnon, Jr., IR3:Sept 73:215:9983
The South Dakota Weather Modification Program, Merlin C. Williams, Preprint No.1883, Jan 73
Weather Modification Program for South Dakota, Richard A. Schleusener and Edwin I. Boyd, HY9:Sept 72:1515:9187
  TR:138:466
Weather Modification: Report Card, Robert I. Sax, CE:Jan 73:53

Web Beams
Failure of Thin-Walled Members Under Patch Loading, Kenneth C. Rockey, Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
  TR:138:572

Webs (Supports)
Bending Behavior of Cylindrical Web Panels, Charles G. Culver, Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
  TR:138:507
Column Web Strength in Beam-to Column Connections, Wai F. Chen and David E. Newlin, TN: ST9:Sept 73:1978:9968
Curved Webs Under Combined Shear and Normal Stress, George Abdel-Sayed, ST3:Mar 73:511:9631
Experiments and Studies on Unstiffened Thin Web Girders, Chingmiin Chern, Preprint No.1932, Apr 73
Suggested Design Guides for Beams with Web Holes, by the Subcommittee on Beams with Web Openings of the Task Committee on Flexural Members of the Structural Division, John E. Bower, Chmn., ST11:Nov 71:2707:8536
  TR:138:30
Web Slenderness Requirements for Curved Girders, Charles G. Culver, Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620

Weed Control
Environmental Aspects of Aquatic Plant Control, Thomas R. Bartley and Edward O. Gangstad, Preprint No.1870, Jan 73

Weight (Mass)
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, A. G. Sokolov, TB:73:Ia-3-603

Weighting Functions
Theoretical Weighting of Photogrammetric Equations, Charles Kendall Paul, SU2:Nov 72:127:9346
  TR:138:550

Weir Crests
Supercritical Flow Over Sills, John A. McCorquodale and M. K. Giratalla, HY4:Apr 72:667:8846
  TR:138:239

Weirs
Characteristics of Flow Weirs of Finite Crest Width, Singamsetti Surya Rao and Manoj Kumar Shukla, HY11:Nov 71:1807:8515
  TR:138:42
Characteristics of Hydrofoil Weirs, Nagar S. Lakshmana Rao and M. V. Jagannadha Rao, HY2:Feb 73:259:9542
Computer Programming for Flow Over Side Weirs, Kenneth V.H. Smith, HY3:Mar 73:495:9626
End Effects in Models for Seepage Below Weirs, S. Muthukumaran and V. C. Kulandaiswamy, HY3:Mar 72:541:8794
  TR:138:216
Oxygen Adsorption in Streams, John D. Parkhurst and Richard D. Pomeroy, SA1:Feb 72:101:8701
  TR:138:156
Spatially Varied Flow Over Side-Weirs, Kanakatti Subramanya and Subhash Chandra Awasthy, HY1:Jan 72:1:8627
  TR:138:84

Weld Defects
Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
  Dsc: James F. Sato, CE:Sept 72:57
  TR:138:345
Lamellar Tearing of Welded Steel, CE:Dec 73:34

Welded Joints

Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5: May 72:989:8874
TR:138:233

Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62

Welded Pipes

Basis for Tubular Joint Design Codes, Peter W. Marshall and A. Anthony Toprac, Preprint No.2008, Apr 73

Brittle Fracture of Steel Pipe Analyzed, Robert V. Phillips and Stephen M. Marynick, CE:July 72:70
Dsc: James F. Sato, CE:Sept 72:57
TR:138:345

Welding

Beam-Column Subassemblages Under Repeated Loading, Vitelmo V. Bertero, Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
TR:138:268

Connections, State-of-Art Report 5, John A. Gilligan and Wai F. Chen, TB:73:II-15-327

Eccentrically Loaded Welded Connections, Lorne J. Butler, Shubendu Pal and Geoffrey L. Kulak, ST5: May 72:989:8874
TR:138:233

Fatigue and Fracture, Theme Report, A. A. van Douwen, TB:73:II-18-721

Fatigue Failure of Welded Tubular Joints, James M. Becker, William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62

Fatigue of Orthotropic Steel Decks, Hacik Erzurumlu and A. Anthony Toprac, ST4:Apr 72:813:8823
TR:138:205

How Safe are Your Poles?, Joseph R. Arena, ST7: July 73:1333:9848

Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, Egor P. Popov, TB:73:II-18-741

Management the Lincoln Electric Way, CE:Jan 73:76

Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, A. P. Vasiliev, Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Quality Control Criteria, Theme Report, William H. Levelius, TB:73:Ib-9-749

Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Welds

Welding Inspection, State-of-Art Report 6, J. T. Biskup, TB:73:Ib-9-851

Wells

Contamination of Discharge Well from Recharge Well, Charles W. Lenau, HY8:Aug 73:1247:9958

Geothermal Resource Investigations, Lloyd R. Porter, HY11:Nov 73:2097:10136

Gravitational and Dispersive Mixing in Aquifers, Lynn W. Gelhar, John L. Wilson, III and John S. Miller, HY12:Dec 72:2135:9439
TR:138:588

Numerical Solution of Multiphase Well Flow, Willem F. Brutsaert, HY11:Nov 73:1981:10162

Seawater Intrusion Extraction Barrier, Jack J. Coe, IR3:Sept 72:387:9171
TR:138:425

Tensiometer Use in Shallow Ground-Water Studies, Sterling J. Richards, Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457: 10243

Transient Flow to Finite Well in Unconfined Aquifer, Richard M. Clever, Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Water Well Design for Earthquake-Induced Motions, Hagop N. Nazarian, PO2:Nov 73:377:10176

Well Efficiency and Skin Effect, Yaron M. Sternberg, TN: IR2:June 73:203:9766

West Germany

Thyssenhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-448

Unileverhaus, Hentrich - Petschnigg & Partner, TB: 73:C-P-450

West Virginia

Buffalo Creek Dam Disaster: Why It Happened, William E. Davies, CE:July 73:69

Helicopter Emergency Medical Care Delivery Systems, Edward S. Neumann, Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155

Wetlands

The Boundary of the Sovereign, Paul T. O'Hargan, SU1:Sept 73:15:9979

Wetting

Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, Sie-Ling Chiang, HYB:Aug 73:371

Wheels

Critical Tensile Strain in Asphalt Pavements, Yang H. Huang, TE3:Aug 73:553:9925

White Noise

Dynamic Soil-Structure Interaction, Mauricio A. Sarrazin, ST7:July 72:1525:9026
TR:138:338

Width

Buckling of Steel Angle and Tee Struts, John B. Kennedy and Madugula K.S. Murty, ST11:Nov 72: 2507:9348
TR:138:547

Wind (Meteorology)

Analysis and Design of Hyperbolic Cooling Towers, German R. Gurfinkel and Adolf Walser, PO1:June 72:133:8997
TR:138:340

Bundled-Tube Structure for Sears Tower, S. Hal Iyengar, CE:Nov 72:71
TR:138:509

Coastal Current of Pacific Northwest, Bard Glenne and Robert H. Bourke, WW4:Nov 72:433:9371
TR:138:574

Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248

Computer Design of Engineered Brick Masonry, Alan H. Yorkdale and Robert P. Anderson, ST5: May 72:1119:8916
TR:138:271

Distribution of Wind Loads to Soils, State-of-Art Report 2, S. V. De Simone, TB:73:Ia-11-881

Distributions of Extreme Winds Over Oceans, Herbert C.S. Thom, WW1:Feb 73:1:9556

Drag Spectra of Simple Structures in Turbulence, John Brian Roberts, EM5:Oct 72:1053:9238
TR:138:448

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
TR:138:517

Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49

Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, Minoru Wakabayashi, TB:73:II-15-343

Galloping Oscillations of Prismatic Structures, Milos Novak, EM1:Feb 72:27:8692
TR:138:50

Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, John W. Reed, Robert J. Hansen and Erik H. Vanmarcke,, TB:73: II-17-687

Human Response to Wind-Induced Motion of Buildings, Robert J. Hansen, John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868

Monte Carlo Simulation of Oil Slick Movements, Mehmet Aziz Tayfun and Hsiang Wang, WW3:Aug 73:309:9930

Reducing Pond Evaporation with Perlite Ore, Keith R. Cooley and C. Brent Cluff, IR2:June 72:255:8953
  TR:138:305
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, Fumihiko Maki, TB:73:Ia-1-91
Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012
Wind Loading and Wind Effects, Theme Report, Alan G. Davenport, TB:73:Ib-7-335
Wind Recommendations for Transmission Towers, Gene M. Wilhoite, ST2:Feb 72:447:8723
  TR:138:142
Wind Spectra and Alongwind Structural Response, Emil Simiu, Preprint No.2086, Oct 73

Wind Bracing
Shear Field Panel Bracing, Paul Weidlinger, ST7:July 73:1615:9870
Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
  TR:138:417

Windows
Sun Shading, Shadows and Effects on Traffic, John S. Gero, TB:73:Ia-1-259

Wind Pressure
Along-Wind Response of Large Bluff Buildings, Julius Solnes and Ragnar Sigbjornsson, ST3:Mar 73:381:9585
Cantilever Cylindrical Shells Under Assumed Wind Pressures, S. Gopalacharyulu and D. J. Johns, EM5:Oct 73:943:10085
Coherence of Grid-Generated Turbulence, John Brian Roberts and David Surry, EM6:Dec 73:1227:10248
Design Developments - Asia & Australia, State-of-Art Report 4, Leonard K. Stevens, TB:73:Ib-7-399
Design Developments - Europe, Africa, State-of-Art Report 5, T. A. Wyatt, TB:73:Ib-7-407
Design Developments - North & South America, State-of-Art Report 6, Peter W. Chen, TB:73:Ib-7-423
Designing Against Infiltration, State-of-Art Report 4, Elmer E. Botsai, TB:73:Ia-12-1131
Drag or Along-Wind Response of Slender Structures, Barry J. Vickery and Kwan H. Kao, ST1:Jan 72:21:8635
  TR:138:86
Drift Criteria, State-of-Art Report 2, Roy G. Johnston, TB:73:II-17-635
Effect of Blockage on Steady Force Coefficients, Amruthur S. Ramamurthy and C. P. Ng, EM4:Aug 73:755:9905
Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, Peter A. Strobel, CE:Dec 73:64
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, P. E. Rousseau, TB:73:Ia-12-1153
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
  TR:138:517
Failures of Structures Due to Extreme Winds, Joseph E. Minor, Kishor C. Mehta and James R. McDonald, STF:73:49
Finite Element Shallow Lake Circulation Analysis, Richard H. Gallagher, James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855
Human Response to Motions in Tall Buildings, Fu-Kuei Chang, ST6:June 73:1259:9811
Impact and Dynamic Load Effects, State-of-Art Report 4, Masanori Izumi, TB:73:Ib-5-77
Lateral Support of Concrete Block Walls, Harry D. Lovering, CE:May 73:74
  Dsc: Michael A. Jordan, CE:Aug 73:24
Lift or Across-Wind Response to Tapered Stacks, Barry J. Vickery and Arthur W. Clark, ST1:Jan 72:1:8634
  TR:138:85
Logarithmic Profiles and Design Wind Speeds, Emil Simiu, EM5:Oct 73:1073:10100
On Modeling Wind-Induced Water Currents, George E. Hecker and Glenn A. Yale, HYB:Aug 73:335
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, Teh-Yuh Kao and Daniel L Shoemaker, HYB:Aug 73:349
Parametric Study of Wind Loading on Structures, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634
Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879
  TR:138:281
Research Review - Asia & Australia, State-of-Art Report 1, Hatsuo Ishizaki, TB:73:Ib-7-365
Research Review -- Europe and Africa, State-of-Art Report 2, H. Van Koten, TB:73:Ib-7-375
Research Review -- North and South America, State-of-Art Report 3, W. A. Dalgliesh and R. D. Marshall, TB:73:Ib-7-383
Response of Tall Buildings to Wind Loading, Rimas Vaicaitis, Masanobu Shinozuka and M. Takeno, Preprint No.1939, Apr 73
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, Manfred Stiller, TB:73:III-20-45
Stability and Dynamic Analyses of Cooling Tower, Chang-hua Yeh and William Y.J. Shieh, PO2:Nov 73:339:10141
Structural Steel Tiered Building Frames, State-of-Art Report 3, Anthony F. Nassetta, TB:73:Ia-3-465
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, Preprint No.1958, Apr 73
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249
Tower Response to Actual and Simulated Wind Forces, Arthur N.L. Chiu and George T. Taoka, ST9:Sept 73:1911:10012
Turbulence Effect on Wall Pressure Fluctuations, Willy Z. Sadeh and Jack E. Cermak, EM6:Dec 72:1365:9445
  TR:138:579
Wall Panel Resistance to Tornado-Borne Debris, E. Bergmann, R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435
Wind-Generated Internal Waves and Inertial-Period Motions, Wolfgang Krauss, ISSF:Aug 72:283
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441

Wind Tunnel Models
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435

Wind Tunnels
Aerodynamic Forces on a Triangular Cylinder, C. F.M. Twigge-Molecey and W. Douglas Baines, EM4:Aug 73:803:9904
Codes and Model Testing, John Springfield, TB:73:Ib-7-431
Wind Effects on Tall Buildings -- Areas for Research, Jack E. Cermak, TB:73:Ib-7-435
Wind Loading and Wind Effects, Summary Report, S. Mackey, TB:73:Ib-7-445
Wind Tunnel Test Expectations, W. H. Melbourne, TB:73:Ib-7-441

Wind Velocity
Prediction of Near-Surface Drift Currents from Wind Velocity, Jin Wu, HY9:Sept 73:1291:9995
Tornado Risks and Design Wind Speed, Yi-Kwei Wen and Shih-Lung Chu, ST12:Dec 73:2409:10249

Windward Drift
Physical Scales for Generation of Wind Waves, Jin Wu, WW2:May 72:163:8879
  TR:138:281

Winter

Winter Storm and Flood Analyses, Northwest Interior, Clifton W. Johnson and Robin P. McArthur, HYB:Aug 73:359

Wire Rope

Contact Stresses in Twisted Wire Cables, James W. Phillips and George H. Costello, EM2:Apr 73:331: 9676

Wisconsin

Community Improvements and Services Costs, Marshall L. Anderson, UP1:Mar 73:77:9600

First Wisconsin Center, Skidmore, Owings & Merrill, TB:73:C-P-494

Floodland Management: The Environmental Corridor Concept, Stuart G. Walesh, HYB:Aug 73:105

Lake Superior Yachting Marinas Resist Ravages of Ice, C. Allen Wortley, CE:Feb 72:47
TR:138:79

Milwaukee Installs Concrete Median Barriers, Daniel A. Kastenholz, CE:July 73:88

Wisconsin Paves Directly on Sand Subgrade, Wesley J. Burmeister, CE:Aug 73:52

Withdrawal

Bottom Withdrawal of Viscous Stratified Fluid, Stuart G. Walesh and Peter L. Monkmeyer, HY9:Sept 73: 1401:10018

Proposed Water Resources Trust Fund, Morris H. Klegerman, CE:Apr 73:52

Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, Timothy W. Kao, H. P. Pao and S. N. Wei, ISSF:Aug 72:581

Wood

Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437

Inelastic Bending of Wood Beams, Borislav D. Zakic, ST10:Oct 73:2079:10071

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, Preprint No.1929, Apr 73

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12: Dec 73:2345:10230

Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt and James R. Goodman, Preprint No.1953, Apr 73

Treated Wood Foundations for Houses, CE:Oct 73: 41

Wooden Bridges

FPL Timber Bridge Deck Research, Billy Bohannan, ST3:Mar 72:729:8779
TR:138:169

Wooden Structures

Analysis of Nailed Joints with Dissimilar Members, Thomas Lee Wilkinson, ST9:Sept 72:2005:9189
TR:138:437

Lateral Stability of Beam and Deck Structure, Paul M. Jenkinson and John J. Zahn, ST3:Mar 72:599: 8786
TR:138:181

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, Preprint No.1929, Apr 73

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, ST12: Dec 73:2345:10230

Practical Design for Seismic Loads in Wood Roof Framing, Warren H. Bower, Preprint No.1969, Apr 73

Service and Overload Behavior of Wood Joist Floor Systems, M. Daniel Vanderbilt and James R. Goodman, Preprint No.1953, Apr 73

Wood Structures Can Resist Hurricanes, Gerald E. Sherwood, CE:Sept 72:91
TR:138:417

Wood Preservatives

Performance of Wood Construction in Disaster Areas, Joseph A. Liska and Billy Bohannan, Preprint No.1929, Apr 73

Treated Wood Foundations for Houses, CE:Oct 73: 41

Work

Computer Design of Antenna Reflectors, Roy Levy and Robert J. Melosh, ST11:Nov 73:2269:10178

Effects of Geometry Change on Essential Features of Inelastic Behavior, Giulio Maier and Daniel C. Drucker, EM4:Aug 73:819:9914

Working Conditions

California ASCE Sections Prepare Employment Guidelines, George S. Korbay and Ronald P. Gallagher, CE:Jan 72:52
TR:138:25

Work Measurement

Salary Evaluation for Young Professionals, Elwood D. Dobbs, PP4:Oct 73:421:10083

Writing

Impact Statements -- Present and Potential, James R. Pearson, PP4:Oct 73:449:10066

Wye Branches

Combining Flow in Branches and Wyes, James V. Williamson, HYB:Aug 73:215

Yield

Plastic Analysis of Anisotropic Disks and Plates, Archibald N. Sherbourne and Sridhara D.N. Murthy, EM1:Feb 72:11:8694
TR:138:59

Yield Strength

Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, Goran A. Alpsten, TB:73:Ib-9-755

Younger Viewpoint

Bridge To Europe, Laurence E. Rohter, CE:Mar 73: 61

The Civil Engineer In Construction, Richard H. Clough, CE:July 73:97

The Civil Engineer In Research, Johannes J. DeVries, CE:Jan 73:92

A Funny Thing Happened On The Way To The Forum, Michael N. Goodkind, CE:Dec 73:79

Is Management The Answer?, David L. Parmeter, CE:May 73:89
Dsc: Norman D. Falk, CE:Oct 73:26

Marketing Professional Engineering Services, Lynn D. Dorsey, CE:Oct 73:99

Organizational Changes To Make The Associate Member Forum More Viable Force, CE:June 73: 100
Dsc: John E. Kemper, CE:Aug 73:22

Our Priceless Heritage, Our Youth, Leon Jaworski, CE:Mar 73:76
Dsc: G. A. Hammond, CE:June 73:22; Darrell J. Turner, CE:June 73:22; T. P. Limber, CE:Aug 73:40

Zoning

Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, Michel Holley, TB:73:Ia-1-77

Architecture of Tall Buildings, State-of-Art Report 8, Arthur James Mc Arthur, Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199

Aseismic Design of Buildings, Jai Krishna, TB:73:Ib-6-299

Citizens Participation and the New Environmentalism, Stanley R. Stokey, UP1:Mar 73: 69:9599

The Future of Tall Buildings, State-of-Art Report 3A, Jonathan Barnett, TB:73:Ia-1-85

Parking Design and Requirements for High Rise Building, State-of-Art Report 11, Richard C. Rich, TB:73:Ia-1-225

Responsibility of Gas Utilities for Pipeline Safety, Carl T. Kallina, TE2:May 72:341:8883
TR:138:148
Role of Economics in Planning Flood Plain Land Use, L. Douglas James, HY6:June 72:981:8935
TR:138:314
Wisconsin's Shoreland Management Program, Thomas M. Lee, UP1:July 72:45:9054
TR:138:605

COMBINED NAME INDEX

Aalami, Bijan
Large Deflection of Elastic Plates Under Patch Loading, ST11:Nov 72:2567:9359
TR:138:559

Abaya, N.
Photographs of Tall Buildings, State-of-Art Report 2, with E. Ozer, TB:73:C-AC14-113
See E. Ozer, TB:73:C-AC14-93

Abbott, Michael B.
Towards a Design System for Stratified Flows, with John P. Grubert, ISSF:Aug 72:113
See John P. Grubert, HY10:Oct 72:1847:9300

Abdel-Aal, Farouk M.
See Hans Albert Einstein, HY1:Jan 72:137:8652

Abdel-Baset, Saleh B.
Second-Order Collapse Load Analysis: LP Approach, with Donald E. Grierson and Niels C. Lind, ST11:Nov 73:2215:10128

Abdel-Sayed, George
Curved Webs Under Combined Shear and Normal Stress, ST3:Mar 73:511:9631
See Osman A. Marzouk, ST11:Nov 73:2287:10143

Abdul-Baki, Assad
Continuous Helicoidal Girders, with Abla Shukair, ST10:Oct 73:2183:10108

Abdul Khader, M. H.
Helical Flow Through Concentric Annulus, with H. Suresh Rao, EM2:Apr 72:447:8836
TR:138:231
Dsc, with H. Suresh Rao, HY6:June 72:1080:8925, of "Experiments on Plane Couette Flow", HY9:Sept 71:1269:8367

Abdun-Nur, Edward A.
Quality System in Construction, with John E. Rinne, Preprint No.1912, Jan 73
Dsc, PP2:Apr 72:289:8818, of "Systems Approach and the Civil Engineer", PP1:Oct 71:65:8457
Dsc, CO2:Sept 72:362:9155, of "Changed Soil and Rock Conditions in Construction", CO2:Nov 71:257:8509
Dsc, CO2:Sept 72:365:9155, of "Booby Traps for Young Engineers on Construction", CO2:Nov 71:305:8541

Abe, Masatoshi A.
Pricing in Mass Transportation, with Kumares C. Sinha, TE1:Feb 73:83:9551

Abe, Tetsuo
See Toshio Iwasaki, ISSF:Aug 72:251

Abel, John F.
Stresses Around Flexible Elliptic Pipes, with Robert Mark and Rowland Richards, Jr., SM7:July 73:509:9858

Abeles, Paul W.
Dsc, ST12:Dec 73:2498:10185, of "Symmetry in Structural Mechanics", ST1:Jan 73:71:9475

Abiodun, Adigun Ade
Analysis of Seepage into Ground-Water System, TN: HY7:July 73:1203:9827

Aboudi, Jacob
Elastic Waves in Half-Space with Thin Barrier, EM1:Feb 73:69:9536
Errata: EM6:Dec 73:1306:10181

Abraham, Gerrit
Jets and Plumes Issuing Into Stratified Fluid, ISSF:Aug 72:3
See Edward R. Holley, HY12:Dec 73:2313:10241

Abu-Sitta, Salman H.
Dynamic Wind Stresses in Hyperbolic Cooling Towers, with Mahmoud G. Hashish, ST9:Sept 73:1823:9989

Acaroglu, Ertan R.
Friction Factors in Solid Material Laden Systems, HY4:Apr 72:681:8854
Dsc: Frederico Lovera, HY3:Mar 73:547:9580; H. D. Sharma, D. V. Varshney and Ashutosh K. Agrawal, HY4:Apr 73:684:9637
TR:138:241

Achenbach, Jan D.
See Fang-Hui Chou, EM4:Aug 72:813:9102
See Ying-San Lai, ST1:Jan 73:19:9470

Achyuthan, Avittathur
Dsc, with Viswanathan Sethuraman, HY11:Nov 73:2153:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Acker, Richard C.
Foundation and Abutment Treatment for Rockfill Dams, with Jack C. Jones, SM10:Oct 72:995:9303
TR:138:494

Ackerman, Adolph J.
Dsc, PP3:July 73:408:9824, of "Water Resources in the Future: Directions and Prospects", PP3:July 72:343:9040
Dsc, PP3:July 73:412:9824, of "Ecology - Rage and Reason", PP3:July 72:331:9067

Ackers, Peter
Sediment Transport: New Approach and Analysis, with William Rodney White, HY11:Nov 73:2041:10167

Adamowski, Kazimierz
Stochastic Generation of Rainfall, with Anthony F. Smith, HY11:Nov 72:1935:9353
TR:138:548

Adams, Bobby Dean
See Kenneth L. Lee, SM10:Oct 73:745:10068

Adams, John R.
See David R. Basco, HY12:Dec 71:2023:8599

Adams, Peter F.
Stability of Three Dimensional Building Frames, State-of-Art Report 4, TB:73:II-16-483
See Jacobus H. Wynhoven, ST1:Jan 72:233:8643
See John Springfield, ST5:May 72:1069:8911
See Jacobus H. Wynhoven, ST7:July 72:1361:9010

See James G. MacGregor, ST11:Nov 72:2351:9351
See Brian R. Wood, ST1:Jan 73:209:9462
See Gordon W. English, ST7:July 73:1457:9851
See William R. Hibbard, ST11:Nov 73:2259:10132

Adams, Thomas L.
Experiments in Expandable Tip Piling, with Fred C. Stepanich, SM11:Nov 73:957:10161

Adey, Robert A.
Efficient Method for Solution of Viscoelastic Problems, with Carlos A. Brebbia, EM6:Dec 73:1119:10206

Adham, Samy A.
See Jeremy Isenberg, PO2:Oct 72:273:9242

Adidam, Sai R.
See George I.N. Rozvany, EM6:Dec 72:1337:9404

Adrian, Donald Dean
See Robert W. Cleary, EE3:June 73:213:9770

Adrian, George W.
See Robert D. Bargman, EE6:Dec 73:939:10204

Adulbhan, Pakorn
See Donald R. Drew, WW3:Aug 72:393:9131

Advani, Rupchand M.
Dsc, with Pashupati N. Modi, HY11:Nov 71:1923:8483, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
Dsc, HY12:Dec 73:2385:10182, of "Unified Nondimensional Formulation for Open Channel Flow", HY1:Jan 73:1:9468

Agarwal, Akhilesh C.
Differential Expansion in Elastic Laminates, with Mark W. Huggins, ST4:Apr 73:655:9653

Agarwal, Gyan C.
Fourier Analysis of Simulated and Recorded EMG, with Gerald L. Gottlieb, Preprint No.2035, July 73

Agarwal, S. C.
See G. Sastry, IR2:June 72:247:8939

Agarwal, Vijay K.
See H. D. Sharma, HY2:Feb 73:375:9523

Agbabian, Mihran S.
See Jeremy Isenberg, Preprint No.1989, Apr 73
See Jeremy Isenberg, TE4:Nov 73:887:10166

Aggarwal, Vinod
See Charles G. Culver, ST4:Apr 73:715:9682
See Paul J. Ossenbruggen, ST4:Apr 73:727:9681

Agrawal, Ashutosh K.
See Satya P. Garg, HY5:May 71:653:8091
See H. D. Sharma, HY4:Apr 73:684:9637

Agrawal, Babu L.
See Dhirendra N. Buragohain, ST5:May 73:799:9715

Aguilar, Antonio M.
Principles of Survey Error Analysis and Adjustment, SU1:Sept 73:107:10034
Selection of Maps for Engineering and Planning, by the Task Committee for the Preparation of a Manual on the Selection of Map Types, Scales and Accuracies for Engineering and Planning of the Committee on Cartographic Surveying of the Surveying and Mapping Division, SU1:July 72:107:9073
Clo: SU1:Sept 73:140:9965
TR:138:420

Aguirre, A.
See J. Aguirre, TB:73:C-P-482

Aguirre, J.
Building B -- Santiago Central Development Program, with C. Bolton, L. Prieto S. Larrain and A. Lorca, TB:73:C-P-466
Rotonda Vitacura Building, with A. Aguirre, TB:73:C-P-482

Ahmad, Ihsan
See K. G. Ranga Raju, HY12:Dec 72:2224:9391

Ahmad, Mushtaq
Dsc, HY7:July 73:1176:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY9:Sept 72:1647:9177
Dsc, HY9:Sept 73:1639:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Akesson, A.
Dsc, ST12:Dec 72:2825:9395, of "Column-Plate Interaction in Flat Slab Structures", ST1:Jan 72:307:8670

Akhand, Shamsul A.
See Jason C. Yu, Preprint No.2059, July 73

Akiyama, H.
See Y. Yokoo, TB:73:II-17-619

Alam, Abu M.Z.
Optimization Model for Churchill River Diversion, HY8:Aug 72:1351:9089
TR:138:409

Albertsen, Norman D.
See Harvey H. Haynes, ST6:June 72:1291:8963

Al-Dabbagh, Adam
Finite Element Method for Wood Mechanics, with James R. Goodman and Jozsef Bodig, ST3:Mar 72:569:8784
TR:138:174

Alden, F. G.
See Harry R. Powell, TE3:Aug 72:633:9096

Alexander, Geoffrey N.
Dsc, HY12:Dec 73:2388:10182, of "Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division", HY2:Feb 73:337:9571

Alexander, Louis Jessup
Memoir of, TR:138:615

Alexander, Stuart M.
See Charles V. Gibbs, SA6:Dec 72:951:9402

Alexander, William D.
Civil Engineers Help Construct the World's Largest Proton Accelerator, with Marvin E. Warner, E. Parke Rohrer and Richard E. Pages, CE:Oct 72:77
TR:138:474
Dsc, Joint Ventures For Architects And Engineers, CE:Aug 73:30

Alford, W. T.
Role of the Air Line Pilot in Air Transportation, ASC73:Mar 73:55

Al-Hussaini, Mosaid M.
Dsc, SM9:Sept 72:958:9158, of "Effect of Mica on K_0 Compressibility of Two Soils", SM9:Sept 71:1275:8401
Dsc, SM12:Dec 72:1409:9394, of "Evaluation of Properties of Rockfill Materials", SM1:Jan 72:95:8672

Ali, Iqbal
Dsc, HY7:July 73:1180:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY9:Sept 72:1647:9177

Ali, Kamil H.M.
Flow Over Rounded Spillways, HY2:Feb 72:365:8704
  Dsc: John J. Cassidy, HY1:Jan 73:267:9459
  Clo: HY7:July 73:1155:9823
  TR:138:163
See Richard B. Whittington, HY1:Jan 72:45:8629

Alizadeh, Mahmood M.
Circular Land Cofferdam for Deep Excavation, CO1: July 73:11:9840

Allen, B. E.
See M. Galbreath, TB:73:Ib-8-721

Allen, D. E.
Gravity Loads and Temperature Effects, Summary Report, TB:73:Ib-5-145
Progressive Collapse, Abnormal Loads, and Building Codes, with W. R. Schriever, STF:73:21
Strength Factors for Composite Members, TB:73:III-26-940

Allen, David
Dsc, CE:Sept 72:73, on Poor Structural Design Brings West Gate Bridge Failure, CE:June-72:47
Dsc, PP3:July 73:415:9824, of "Civil Engineer's Compensation - ASCE's Future", PP4:Oct 72:557: 9226

Allen, James
Frost Heaving of Piles in Permafrost, with Robert W. Huck, CE:Apr 72:77
  TR:138:215

Allesandri, Joseph P.
See Ivan F. Gennis, CE:Dec 73:45

Allgood, Jay R.
See Robert J. Odello, ST10:Oct 73:1999:10096

Allison, Horatio
Plastic Design of Braced Multi-Story Frames, State-of-Art Report 1, TB:73:II-15-279

Allison, Stephen V.
Social Factors in Irrigation Design for Bangladesh, with Kazi F. Jalal, Preprint No.1892, Jan 73

Allman, William B.
See Thomas S. Harlan, CE:June 73:78

Allred, Jesse F.
Sequoyah Ice Condenser Containment Structure, with Robert O. Barnett, PO1:May 73:019:9695

Almeida, Filomeno N.
Dsc, ST5:May 72:1207:8861, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71: 2203:8353

Almroth, Bo O.
The Computer in Structural Stability Analysis, with James H. Starnes, Jr., Preprint No.1936, Apr 73

Almuti, Amin M.
Static and Dynamic Cyclic Yielding of Steel Beams, with Robert D. Hanson, ST6:June 73:1273:9817

Alpern, Milton
"Engineer Shortage" - A Myth That is as Bad as a Guile, PP4:Oct 73:441:10082
The Making of a Pro. . . or, Motivation of Students Towards Professional Thinking, Preprint No.2073, Oct 73

Alperovits, Elyahu
See Nathan Buras, IR1:Mar 73:43:9586

Alperstein, Robert
Dsc, SM10:Oct 73:893:10038, of "Expansion of Cylindrical Probes in Cohesive Soils", SM11:Nov 72:1129:9377

Alpsten, Goran A.
Variations in Mechanical and Cross-Sectional Properties of Steel, State-of-Art Report 1, TB:73:Ib-9-755

Alsaffar, Adnan M.
Environmental Consideration in the Design of Blowdown Discharge Systems, Preprint No.2065, Oct 73

Alter, Amos J. (Joe)
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Altinbilek, Hilmi D.
See Marion R. Carstens, HY5:May 72:787:8890

Amaral, Nilo Andrade
South American Standards for Reinforced Concrete Concrete, State-of-Art Report 3, TB:73:III-20-57

Ambos, Gerd
See Gert Konig, TB:73:III-23-613

Amiet, Lyle R.
New Drydock for American Ship Building Company, WW2:May 73:137:9712

Anand, Subhash C.
Buckling of Wide Flange Columns About Minor Axis, with Julian Snyder and C. L. Dhar, ST1:Jan 73:145:9513
An Educator-Practitioner Interaction Program, PP2: Apr 73:259:9674
  Dsc: Michael J. O'Rourke, PP4:Oct 73:545:10040
Inelastic Buckling of Rings with Residual Stresses, with Alvin R. Griffith, EM5:Oct 73:927:10063
Prestressed Composite Steel Beam Design, with Ahmed Talesstchi, ST3:Mar 73:301:9594
  Dsc: James W. Chai, ST11:Nov 73:2328:10113

Anandakrishnan, M.
Response of Embedded Footings to Vertical Vibrations, with N. R. Krishnaswamy, SM10:Oct 73:863:10092

Anastasescu, Decebal M.
See Constantin N. Avram, TB:73:III-20-67
See Constantin N. Avram, TB:73:III-20-131
See Constantin N. Avram, TB:73:III-21-318

Andersland, Orlando B.
Consolidation of Papermill Sludges, with P. John Mathew, SM5:May 73:365:9713
Permeability of High Ash Papermill Sludge, with Robert W. Laza, SA6:Dec 72:927:9443
  Errata: EE3:June 73:393:9758
  TR:138:576
See Robert P. Vallee, SM8:Aug 73:642:9892

Anderson, Alvin G.
Dsc, WW1:Feb 72:86:8686, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155: 7869

Anderson, Clayton L.
See Fred W. Blaisdell, HY12:Dec 72:2237:9391

Anderson, David M.
Impact on Industries of Air Pollution Control Legislation -- A Panel Discussion, Preprint No.2109, Oct 73

Anderson, Donald A.
See Verne E. Smith, HY12:Dec 73:2293:10245

Anderson, Donald N.
20th Century Renaissance, PP3:July 73:373:9886

Anderson, Eric A.
National Weather Service River Forecasting System, with John C. Monro, Preprint No.1879, Jan 73

Anderson, Grant L.
See Samuel S.M. Chan, RM14:73:757

Anderson, Grant S.
Baltimore Plans Highways for Minimum Noise, with Frederick Gottemoeller and Daniel G. Page, CE: Sept 72:74
TR:138:410

Anderson, James C.
Earthquake Resistant Design of Unbraced Frames, with Raj P. Gupta, ST11:Nov 72:2523:9344
Errata: ST9:Sept 73:1958:9964
TR:138:540
See Lawrence A. Loziuk, HY11:Nov 72:1983:9372
See Lawrence A. Loziuk, PO2:Nov 73:349:10150

Anderson, Jerry L.
Negatively Buoyant Jets in a Cross-Flow, with Frank L. Parker and Barry A. Benedict, ISSF:Aug 72:469

Anderson, John M.
Stability of Monosymmetric Beams and Cantilevers, with Nicholas S. Trahair, ST1:Jan 72:269:8646
TR:138:122

Anderson, Marshall L.
Community Improvements and Services Costs, UP1: Mar 73:77:9600

Anderson, Peter W.
Impact of Drought on New Jersey's Water Resources, with Samuel D. Faust and John E. McCall, IR3:Sept 72:375:9205
Dsc: Gordon R. Willimas, IR2:June 73:197:9761
TR:138:472

Anderson, Robert P.
See Alan H. Yorkdale, ST5:May 72:1119:8916

Andrawes, Kamal Z.
Factors Affecting Coefficient for Earth Pressure, with Mohamed A. El-Sohby, SM7:July 73:527:9863
Dsc, with Mohamed A. El-Sohby, SM5:May 72:504: 8860, of "Effect of Mica on K_0 Compressibility of Two Soils", SM9:Sept 71:1275:8401

Andrews, George H.
Public Works and the Environment, TE1:Feb 73:1: 9517

Andriacchi, T. P.
See Ted Belytschko, Preprint No.2053, July 73

Aneja, Ish K.
Model Analysis of Curved Box-Beam Highway Bridge, with Frederic Roll, ST12:Dec 71:2861:8603
Dsc: Adel Fam and Carl J. Turkstra, ST10:Oct 72:2320:9227
Clo: ST7:July 73:1635:9826
TR:138:48

Ang, Alfredo H.-S.
Reliability Bases of Structural Safety and Design, with C. Allin Cornell, Preprint No.2023, Apr 73
Structural Risk Analysis and Reliability-Based Design, ST9:Sept 73:1891:10011
Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division, ST4:Apr 72:845:8842
Dsc: John A. Burnes, ST1:Jan 73:217:9462; Carlo Gavarini and Daniele Veneziano, ST1:Jan 73: 219:9462; Ganpat S. Pandit, ST3:Mar 73:582: 9583
TR:138:214
Towards Risk-Based Design and Performance Criteria, TB:73:Ib-10-1007
See Wilson H. Tang, Preprint No.2016, Apr 73
See Bruce R. Ellingwood, Preprint No.2023, Apr 73

Angel, Edward
Irregular Regions and Constrained Optimization, EM3:June 73:581:9819

Angelin, Stig V.
See Roy E. Coxon, HY2:Feb 73:301:9562

Anisimova, E. P.
Turbulence in Stratified Flows, with A. A. Speranskaya, ISSF:Aug 72:475

Annamalai, Natarajan
Cost Optimization of Welded Plate Girders, with Albert D.M. Lewis and John E. Goldberg, ST10: Oct 72:2235:9258
Dsc: M. K. Surendranath, ST9:Sept 73:1955:9964
TR:138:495

Annambhotla, V.S. Shastri
Statistical Properties of Missouri River Bed Forms, with William W. Sayre and Robert H. Livesey, WW4:Nov 72:489:9358
TR:138:544

Anraku, Hidetake
See Ben Kato, EM4:Aug 72:891:9091

Anuchin, V. N.
Experimental Research of Bed Density Flows Under Natural Condition and Their Modelling in Laboratory, with A. M. Gusev, N. A. Mikhailova, V. P. Petrov and I. G. Pyrkin, ISSF:Aug 72:527

Anwar, Habib O.
Appearance of Unstable Buoyant Jet, HY7:July 72: 1143:9012
TR:138:354
Dsc, EM1:Feb 73:227:9522, of "Experiments on Unstable Vortices", EM3:June 72:539:8948

Aoyama, Hiroyuki
Repeated and Cyclic Loadings, TB:73:III-22-460

Apeland, Kristoffer
Reduction of Live Loads and Combinations of Loads, State-of-Art Report 5, TB:73:Ib-5-85

Apgar, William J.
See David R. Basco, HYB:Aug 73:121

Apmann, Robert P.
Estimating Discharge From Superelevation in Bends, HY1:Jan 73:65:9482
Flow Processes in Open Channel Bends, HY5:May 72:795:8886
Dsc: Donald A. Parsons and William C. Harmon, HY4:Apr 73:687:9637
TR:138:263

Apparao, Tamirisa V.S.R.
Dsc, with Pallessena R. Natarajan, ST1:Jan 73:215: 9462, of "Lateral Buckling of Constrained Beams", ST3:Mar 72:741:8793

Appendino, M.
Dsc, PES:73:III-241, of "Consolidation Effects Around Driven Piles", PES:72:I-1207

Arango, Ignacio
Seismic Stability and Deformation of Clay Slopes, with H. Bolton Seed, Preprint No.1979, Apr 73

Arbhabhirama, Anat
Friction Factor and Reynolds Number in Porous Media Flow, with Antonio A. Dinoy, HY6:June 73: 901:9784

Arch, W. H.
Construct Systems, Summary Report, with Sei N. Nikai, T. N. Subba Rao, Jean A. Roret, E. E.F. Taylor and F. M. Bowen, TB:73:Ia-4-823

Arena, Joseph R.
How Safe are Your Poles?, ST7:July 73:1333:9848

Argaman, Yerachmiel
Design of Optimal Sewerage Systems, with Uri Shamir and Eldad Spivak, EE5:Oct 73:703:10050

Arguello, Ottoniel
Mississippi River Water for Texas, with Raphael G. Kazmann, Preprint No.1867, Jan 73
Mississippi River Water for Texas?, with Raphael G. Kazmann, IR4:Dec 73:441:10212

Argyris, John H.
General Treatment of Structural Modifications, with John R. Roy, ST2:Feb 72:465:8732
  Errata: ST2:Feb 73:280:9525
  TR:138:150
Large Deflection Analysis of Prestressed Networks, with Dieter W. Scharpf, ST3:Mar 72:633:8788
  Errata: ST2:Feb 73:281:9525
  TR:138:185
Dsc, with John R. Roy, EM6:Dec 72:1599:9390, of "Reanalysis for Limited Structural Design Modifications", EM1:Feb 72:61:8706

Argyropoulos, Praxitelis A.
New Considerations and Experimental Data on Plastic Pipes, TN: TE2:May 73:431:9688
Dsc, HY11:Nov 72:2046:9305, of "Spatially Varied Flow Over Side-Weirs", HY1:Jan 72:1:8627

Arias, Arturo
Rating of Ground Motion, TB:73:Ib-6-320

Armento, William J.
Cofferdam for BARTD Embarcadero Subway Station, Preprint No.1926, Apr 73
Cofferdam for BARTD Embarcadero Subway Station, SM10:Oct 73:727:10075

Armstrong, Ellis L.
Armstrong Joins URS, CE:May 73:60
Consideration of Alternatives in Decisionmaking, Preprint No.1931, Apr 73
The Quality System as Seen by the Government Engineer-Administrator, Preprint No.1882, Jan 73
Six Join Ranks Of ASCE Honorary Members, CE: Oct 73:89
The Undersea Aqueduct -- A New Concept in Transportation, TE2:May 72:303:8893
  Errata: TE2:May 73:427:9691
  TR:138:195

Armstrong, William L.
Dynamic Testing of Curved Bridge - Huyck Stream, ST9:Sept 72:2015:9179
  TR:138:429
See Robert A. Greig, Preprint No.2017, Apr 73

Arnault, P.
See Margaret Law, TB:73:Ib-8-475

Arndt, Arthur P.
See John B. Scalzi, TB:73:II-17-653

Arnold, A. B.
See Marian Pona, Preprint No.1959, Apr 73
See Marian Pona, PO2:Nov 73:305:10145

Arnold, C. Adrian
Multipurpose Land-Water Transfer Facility, WW2: May 72:253:8903
  TR:138:335

Arnold, Gregory C.
See Patrick D. Fitzgerald, IR1:Mar 72:91:8767

Arnold, Terry G.
See Donald C. Raney, PO1:May 73:139:9707

Arockiasamy, Madasamy
Dsc, with S. Sridharan, ST1:Jan 73:206:9462, of "Optimal Design of Prestressed Concrete Poles", ST1:Jan 72:61:8632

Aronovici, Vladimir S.
Basin Recharge of the Ogallala Aquifer, with Arland D. Schneider and Ordie R. Jones, IR1:Mar 72:65: 8760
  TR:138:104

Arora, Harpal S.
See Edward D. Graf, PES:73:III-105

Arp, Vincent D.
Superconducting Levitation of High Speed Vehicles, with Alan F. Clark and Thomas M. Glynn, TE4: Nov 73:873:10163

Artz, Nicholas S.
See Gerald A. Neely, CE:Oct 72:72

Arulanandan, Kandiah
Electrical Dispersion in Relation to Soil Structure, with Scott S. Smith, SM12:Dec 73:1113:10235
See Chih-Kang Shen, SM1:Jan 73:95:9510
See Arunachalan Sargunam, TN: HY3:Mar 73:555: 9609

ASCE-IABSE Joint Committee on Tall Buildings
Foreword, TB:73:C-P-229

Ashford, Norman
Time Stability of Zonal Trip Production Models, with Frank M. Holloway, TE4:Nov 72:799:9362
  TR:138:535
Variations of Urban Travel Characteristics with Age, with Frank M. Holloway, TE3:Aug 72:715:9124
  TR:138:385

Ashton, George D.
Ripples on Underside of River Ice Covers, with John F. Kennedy, HY9:Sept 72:1603:9191
  Dsc: Frederick A. Locher and Touvia Miloh, HY7:July 73:1187:9823
  TR:138:470
Dsc, HY11:Nov 73:2142:10109, of "Stability of Floating Ice Blocks", HY12:Dec 72:2117:9418

Aslam, Mohammad
See William G. Godden, EM1:Feb 73:201:9576

Asmis, Kurt G.
Dsc, ST11:Nov 73:2331:10113, of "Stability of Guyed Towers", ST4:Apr 73:741:9683

Asmussen, Loris E.
See Willard M. Snyder, IR3:Sept 72:405:9213
See Walter J. Rawls, IR3:Sept 73:375:10013

Asrow, Sherwin P.
Construction Systems, Theme Report, TB:73:Ia-4-661

Atsuta, Toshio
See Wai F. Chen, ST5:May 72:1035:8902
See Wai F. Chen, ST7:July 72:1413:9020
See Wai F. Chen, ST3:Mar 73:469:9613
See Wai F. Chen, EM4:Aug 73:685:9957

Atzori, Bruno
Impact and Wave Propagation in Composite Plates, with Richard B. Nelson, Preprint No.2091, Oct 73

Au, Tung
Pattern Discovery in Urban Environment, with Andrew K.C. Wong, Preprint No.1993, Apr 73
A Systems Approach to Hospital Planning and Design, with Ernest W. Parti and Andrew K.C. Wong, PP4:Oct 72:693:9286
  TR:138:592

Aubert, Eugene J.
Potential of Precipitation Modification, with Gurbachan P. Malhotra and D. B. Spiegler, IR1: Mar 72:49:8787
TR:138:212

Aure, William W.
See Shoju Fukuoka, HY1:Jan 73:195:9479

Austin, Lloyd H.
See Gaylord V. Skogerboe, HY6:June 73:921:9799

Austin, Walter J.
Free Vibration of Arches Flexible in Shear, with Anestis S. Veletsos, EM4:Aug 73:735:9913
See Anestis S. Veletsos, EM2:Apr 72:311:8806

Averkiev, A. G.
Hydraulic Modeling of Stratified Flows, with K. Ya. Kind, ISSF:Aug 72:485

Avram, Constantin N.
General Review of Standards for Concrete Buildings in East European Countries, State-of-Art Report 4, with Decebal M. Anastasescu, TB:73:III-20-67
Problems in Analysis, with Decebal M. Anastasescu, TB:73:III-20-131
Research Regarding the Interaction of Shear Walls and Frames, with Decebal M. Anastasescu and Ovidiu Mirsu, TB:73:III-21-318

Awan, Nazar M.
Moving Water Tables in Tile-Drained Soils, with Terence O'Donnell, IR3:Sept 72:459:9167
TR:138:411

Awasthy, Subhash Chandra
See Kanakatti Subramanya, HY1:Jan 72:1:8627

Axthelm, Deon
Dsc, IR2:June 73:194:9761, of "General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division", IR2:June 72:317:8996

Ayanian, Haig
Practical Traffic Considerations in Earthquake Country, Preprint No.1942, Apr 73

Aysto, Pentti
See Sriralumu Vinnakota, ST6:June 72:1334:8930

Azad, Abdul K.
See Michael S. Troitsky, ST9:Sept 72:1987:9168

Babb, Alan F.
Air Flow in Combined Intake and Shaft Spillway, with Jerry P. Schneider and Kenneth Thompson, HY7:July 73:1097:9859

Babbitt, Donald H.
See Elmer W. Stroppini, SM10:Oct 72:1073:9274

Babendreier, Charles A.
Technology Transfer Requirements in Engineering, Preprint No.2096, Oct 73

Bacher, Alfred E.
See Raymond Eugene Davis, ST11:Nov 72:2329:9325

Backlund, Jan
Dsc, EM6:Dec 72:1603:9390, of "Finite Element Method for Elastic Plastic Plates", EM1:Feb 72:227:8724

Badoux, John C.
See Sriralumu Vinnakota, ST6:June 72:1334:8930

Baehr, Donald O.
See John E. Johnson, Preprint No.2097, Oct 73

Baer, Oliver A.
Double Overlap Beam, ST11:Nov 72:2541:9345
TR:138:542

Bagchi, Debal K.
See Kenneth C. Rockey, ST12:Dec 72:2739:9409

Baghdadi, I.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-521

Bagish, B. P.
Dsc, ST3:Mar 72:767:8752, of "Large Deflections of Curved Plates", ST4:Apr 71:1143:8045

Baguelin, Francois
Expansion of Cylindrical Probes in Cohesive Soils, with Jean-Francois Jezequel, Eugene LeMee and Alain LeMehaute, SM11:Nov 72:1129:9377
Dsc: Robert Alperstein, SM10:Oct 73:893:10038
Errata: SM9:Sept 73:725:9963
TR:138:553

Bagwell, Marshall U.
Georgia Permits Better, Less Costly, Pipeline Crossing of Highways, CE:Feb 73:45
Pipeline Transportation in the 70's, TE1:Feb 73:5:9539

Bahar, Leon Y.
Transfer Matrix Approach to Layered Systems, EM5:Oct 72:1159:9248
TR:138:479

Baier, Dwight C.
Undesirable Plant Responses with Sewage Irrigation, with Wilton B. Fryer, IR2:June 73:133:9783

Bailey, George F.
Dsc, with John C. Sonnichsen, Jr., PO1:June 72:175:8927, of "Cooling Pond Temperature Versus Size and Water Loss", PO3:July 71:589:8250

Baines, W. Douglas
See C. F.M. Twigge-Molecey, EM4:Aug 73:803:9904

Baker, A. L.L.
Fully Plastic Analysis and Design, State-of-Art Report 4, TB:73:III-22-415

Baker, Gerald L.
ASCE Minority Programs, CE:Aug 73:54
Professional Development for Consulting Engineers, PP1:Jan 72:49:8662
TR:138:166

Baker, James R.
Adjusting Radial Surveys, SU2:Nov 72:157:9335
TR:138:501

Baker, Robert F.
Engineering Policies, Politics and Pragmatism, Preprint No.2006, Apr 73
Goals of Civil Engineering Research -- Its Responsiveness to the Needs, Desires and Aspirations of Man, ASCE Committee on Research, PP4:Oct 72:563:9287
TR:138:599
The Use of Underground Space to Achieve National Goals, UNSANS:73:

Bakken, J. Darrell
See Maurice C. Stout, Preprint No.1888, Jan 73

Bakker, C. T.J.
See J. Witteveen, TB:73:II-15-386

Balachandran, Gunaratnam
Hydrodynamic Pressures in Stratified Reservoir, with Tharakkal Eroman Unny and David S. Weaver, TN: EM4:Aug 73:912:9898

Baladi, Sam G.
Dsc, CE:Oct 72:66, on Corps of Engineers Plans Regional Water Quality Program, CE:Mar 72:37

Baldin, V. A.
Determination of Stresses in Columns of Steel Framed Tall Buildings, TB:73:C-AC17-131

Baldur, Roman
Structural Optimization by Inscribed Hyperspheres, EM3:June 72:503:8934
  TR:138:242

Baldwin, John R.
Causes of Delay in the Construction Industry, with James M. Manthei, Harold Rothbart and Robert B. Harris, CO2:Nov 71:177:8501
  Dsc: Harry D. Lovering, CO2:Sept 72:359:9155
  Clo: CO1:July 73:206:9822
  TR:138:27

Ball, Henry F., Jr.
Dsc, CE:Sept 73:31, on "Quo Vadis, ASCE?", CE: June 73:59

Ball, James W.
Cavitation in Butterfly Valves, with J. Paul Tullis, HY9:Sept 73:1303:9993

Ball, Robert E.
Computer Analysis of Buckling of Imperfect Shells, with Bruce A. Ryan, ST10:Oct 73:2097:10072

Ball, William E., Jr.
Three-Dimensional Forward and Inverse Computations, SU2:Nov 72:167:9361
  Errata: SU1:Sept 73:146:9965
  TR:138:595
Three-Dimensional Intersection-- A Vector Approach, SU1:Sept 73:63:10030
Three-Dimensional Resection--A Vector Approach, SU1:Sept 73:87:10007

Balsara, J. P.
Analysis of an 80-Foot Aircraft Shelter for Construction Stresses, with R. E. Walker, Preprint No.2019, Apr 73

Balter, Robert B.
Residential Community Features Novel Dam and Sewer, CE:May 73:46
  Dsc: Jacob S. Parker, Jr., CE:July 73:28

Baluch, Mohammed H.
Finite Element Approach to Plane Microelasticity, with John E. Goldberg and Severino L. Koh, ST9: Sept 72:1957:9203
  TR:138:461

Banavalkar, Prabodh V.
Analysis of Thin-Steel Hyperbolic Paraboloid Shells, with Peter Gergely, ST11:Nov 72:2605:9356
  TR:138:557

Bandel, Hannskarl
Composite Cores and Columns, TB:73:Ia-3-632
Structural Systems for Very Tall Buildings, TB:73:Ia-3-627

Bandyopadhyay, K. K.
Dsc, WW2:May 73:281:9694, of "Mathematical Model of River Hooghly", WW2:May 72:225:8866

Bandyopadnyay, M.
Synthetic Storm Pattern and Run-off for Gauhati, India, HY5:May 72:845:8887
  Dsc: Yu-Leuk Choi, HY3:Mar 73:547:9580
  Clo: HY11:Nov 73:10109.
  TR:138:270

Banerjee, Kalidas
Dsc, SM9:Sept 72:961:9158, of "Initial Settlement of Structures on Clay", SM10:Oct 71:1359:8438

Bansal, Mahendra K.
Dispersion in Natural Streams, HY11:Nov 71:1867: 8540
  Dsc: Y. Lam Lau, HY5:May 72:963:8859; Edward R. Holley, HY6:June 72:1089:8925; Richard G. Warnock and Tagadur P. Halappa Gowda, HY12:Dec 72:2231:9391
  Clo: HY6:June 73:980:9760
  TR:138:50

Baracos, A.
See C. Vogel, SM11:Nov 73:1016:10112

Baratta, Alessandro
A Remark on the Probabilistic Analysis of Structural Safety, TB:73:Ib-10-1039

Barbrow, L. E.
Metrication in the United States, a Status Report, PP4:Oct 72:505:9276
  TR:138:555

Barenberg, Ernest J.
Dsc, Design of Functional Pavements, CE:Apr 73:40

Bargman, Robert D.
How Urgent the Need to Recycle Solid Waste, CE: Sept 72:107
  Dsc: M. J. Mighdoll, CE:Nov 72:67; Wallace E. Strikney, CE:Dec 72:31; Finley B. Laverty, CE: Jan 73:59; Bernard L. Weiner, CE:Jan 73:63
  TR:138:434
Water Reclamation in Los Angeles, with George W. Adrian and Donald C. Tillman, EE6:Dec 73:939: 10204

Barker, Bruce
Cost Effective Waterway Design and Operation, with Gerald D. Seinwill, Preprint No.2050, July 73

Barker, Richard M.
Joint Effects in Bedded Formation Roof Control, with Fritz Hatt, RM14:73:247

Barker, Walter R.
See James P. Sale, SM12:Dec 73:1077:10240

Barnes, George D.
Modification of Major Corridor Location Criteria, TE1:Feb 73:31:9541

Barnett, Alistair G.
See Alex J. Sutherland, HY11:Nov 72:1969:9330

Barnett, Jonathan
The Future of Tall Buildings, State-of-Art Report 3A, TB:73:Ia-1-85

Barnett, Joseph
Dsc, TE4:Nov 73:964:10110, of "Expressway Rapid Transit", TE4:Nov 72:1023:9388

Barnett, Robert O.
See Jesse F. Allred, PO1:May 73:019:9695

Baron, Melvin L.
Influence of Constitutive Models on Ground Motion Predictions, with Ivan Nelson and Ivan Sandler, Preprint No.1937, Apr 73
Influence of Constitutive Models on Ground Motion Predictions, with Ivan Nelson and Ivan Sandler, EM6:Dec 73:1181:10210
See John M. McCormick, Preprint No.2022, Apr 73

Barr, David J.
Civil Engineering Applications of Remote Sensing, with Wesley P. James, Preprint No.2072, Oct 73

Barrett, J. W. Hugh
Computing Backwater at Open Channel Constrictions, with Gaylord V. Skogerboe, HY7: July 73:1043:9841
See Gaylord V. Skogerboe, HY6:June 73:921:9799

Barrett, Robert J.
See James W. Dunham, Preprint No.2018, Apr 73

Barrett, William S.
Dsc, CE:Aug 72:64, on Needed: A National Land Use Policy, CE:May 72:52

Barriage, Joan B.
Benefit-Cost Analysis of Delay Reduction With STOL, with Stanley P.E. Price, TE1:Feb 73:43:9544

Barron, Reginald A.
Abutment and Foundation Treatment for High Embankment Dams on Rock, SM10:Oct 72:1017:9270
TR:138:491

Barry, B. Austin
Collective Bargaining on the Campus, PP4:Oct 72:551:9277
TR:138:563

Barry, Robert E.
Computer Model for Thermal Plume, with David P. Hoffman, PO1:June 72:117:8985
Errata: PO1:May 73:259:9690
TR:138:286

Bartlett, Lloyd T
See Paul R. Wolf, SU1:Sept 73:121:10028

Bartley, Thomas R.
Environmental Aspects of Aquatic Plant Control, with Edward O. Gangstad, Preprint No.1870, Jan 73

Barton, Furman W.
Pressurized Tubes Constrained by Rigid Collars, with Thomas H. Dawson, TN: EM3:June 73:9765

Barton, James R.
Rehabilitation of a Channelized River in Utah, with Parley V. Winger, HYB:Aug 73:1

Barton, Thomas G.
Concrete T-Beams Subject to Combined Loading, with D. Wayne Kirk, ST4:Apr 73:687:9655
Dsc: Anil K. Kar, ST11:Nov 73:2330:10113

Basco, David R.
Drag Forces on Baffle Blocks in Hydraulic Jump, with John R. Adams, HY12:Dec 71:2023:8599
Dsc: Hari R. Sharma, HY10:Oct 72:1884:9222
TR:138:72
Flow Field Surrounding a Suction Pipe Inlet, with William J. Apgar, HYB:Aug 73:121

Base, Geoffrey D.
Sustained and Fluctuating Loading on Bolted Joints, with Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73:2123:10055

Basler, E.
See Niels C. Lind, TB:73:Ib-10-961

Batanero, Juan
Load Factor (Limit States) Design, Theme Report, TB:73:II-19-825

Bathe, Klaus-Jurgen
Eigensolution of Large Structural Systems with Small Bandwidth, with Edward L. Wilson, EM3:June 73:467:9782
Large Eigenvalue Problems in Dynamic Analysis, with Edward L. Wilson, EM6:Dec 72:1471:9433
Dsc: Vernon B. Watwood, EM4:Aug 73:891:9894
TR:138:560

Bauer, Daniel P.
Generalized Stream Temperature Analysis System, with Harvey E. Jobson and Marshall E. Jennings, HYB:Aug 73:167

Bauer, Sebastian W.
Free Overfall As Flow Measuring Device, with Walter H. Graf, IR1:Mar 71:73:7987
Dsc: M. V. Jagannadha Rao and Nagar S. Lakshmana Rao, IR4:Dec 71:656:8553; Eric Markland, IR4:Dec 71:656:8553; Gershon Kulin, IR1:Mar 72:159:8750; Charles D. Smith, IR1:Mar 72:162:8750; Charles D. Morris, IR1:Mar 72:164:8750; Pashupati N. Modi, IR1:Mar 72:165:8750
Clo: IR3:Sept 72:500:9157
TR:138:12

Bauer, William J.
Dsc, CE:Aug 72:46, on Corps of Engineers Plans Regional Water Quality Program, CE:Mar 72:37

Baum, Richard
Service Systems, Theme Report, TB:73:Ia-2-305

Baxter, Samuel S.
Annual Address, PP1:Oct 71:5:8466
Dsc: Tien H. Wu, PP2:Apr 72:291:8818; James T.P. Yao, PP3:July 72:465:9001
Clo: PP3:July 73:405:9824
TR:138:26
Antidote for Environmental Hysteria, PP1:Jan 72:1:8663
Dsc: Charles D. Crosthwaite, PP4:Oct 72:729:9224
TR:138:180

Bay, Robert D.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Bayles, D. Jack
Nonlinear Vibrations of Rectangular Plates, with Richard L. Lowery and Donald E. Boyd, ST5:May 73:853:9727

Bays, Gail
Miss Bays Added To ASCE Staff, CE:Apr 73:92
New Look To ASCE Professional Staff, CE:Oct 73:57

Bazant, Zdenek P.
Comparison of Approximate Linear Methods for Concrete Creep, with Leonard J. Najjar, ST9:Sept 73:1851:10006
Creep of Concrete at Elevated Temperatures, with Spencer T. Wu, Preprint No.2110, Oct 73
Dirichlet Series Creep Function for Aging Concrete, with Spencer T. Wu, EM2:Apr 73:367:9645
Large-Deflection Spatial Buckling of Thin Walled Beams and Frames, with Mahjoub El Nimeiri, EM6:Dec 73:1259:10247
Long-Wave Extensional Buckling of Large Regular Frames, with M. Christensen, ST10:Oct 72:2264:9301
TR:138:504

Beard, Leo R.
Drought Severity and Water Supply Dependability, with Harold E. Kubik, IR3:Sept 72:433:9219
Dsc: John C. Schaake, Jr., Guillermo Vicens, Eric Wood, Roberto Lenton and Alonso Rhenals, IR3:Sept 73:409:9962
TR:138:539
Status of Water Resource Systems Analysis, HY4:Apr 73:559:9658

Beaver, Bob
Area Infrared Locates Solid Ground in Mined Area, with Jack Wood, CE:Mar 73:62

Beck, Charles F.
Responsibilities of Computer-Aided Design, CE:June 72:58
TR:138:288
See Robert K. Waddick, Preprint No.2022, Apr 73

Beck, Hubert
Stability, Theme Report, with Kon Zilch, TB:73:III-23-499

Becker, Eric B.
See James Colville, ST3:Mar 73:349:9593

Becker, James M.
Fatigue Failure of Welded Tubular Joints, with William W. Gerberich and Jack G. Bouwkamp, ST1:Jan 72:37:8624
TR:138:62

Becker, John C.
Alaska Builds Highway Over Muskeg and Permafrost, CE:July 72:75
TR:138:349

Becker, Leonard
See William W-G. Yeh, HY11:Nov 73:2013:10177

Bedrosian, Bedros
Acoustic Approximations in Fluid-Shell Interactions, with Frank L. DiMaggio, EM3:June 72:731:8998
Errata: EM4:Aug 72:1002:9125
TR:138:337

Beedle, Lynn S.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-513
Introduction to Tall Buildings Conference, TB:73:C-21
Introduction to Tall Buildings Proceedings, TB:73:C-1
Dsc, PP1:Jan 72:145:8621, of "Tall Buildings--A Technological Assessment", PP1:Oct 71:111:8476

Beene, Ralph R.W.
Dsc, SM7:July 73:573:9825, of "Analysis of Waco Dam Slide", SM9:Sept 72:869:9210

Beetle, George R.
Dsc, with Thomas B. Furmaniak and Ghebreiesus Yiesghen, TE4:Nov 73:966:10110, of "Computer Simulation of Subway Environment", TE1:Feb 73:53:9518

Beg, M. I.
Finite Difference Approach to Hyperbolic Paraboloids, ST2:Feb 72:429:8730
Dsc: William C. Schnobrich, David A. Pecknold and Chang-Koon Choi, ST8:Aug 72:1885:9079
TR:138:146

Begg, George B.
The Shifting Paradigm, Preprint No.1984, Apr 73

Behera, Umakanta
See K. S. Rajagopalan, ST9:Sept 72:2097:9209

Behrend, Herbert W.
Mobile Homes and New Communities, Preprint No.2088, Oct 73

Beimborn, Edward A.
Impedance Minimization Travel Choice Process, TE2:May 72:177:8882
TR:138:140
See Curtis W. Richards, TE3:Aug 73:435:9923

Belford, Don
Composite Steel-Concrete Building Frame, CE:July 72:61
TR:138:334

Bell, Dave
See David Brenchley, CE:Mar 73:83

Bell, Gordon L.
Dsc, PES:73:III-127, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
Dsc, PES:73:III-127, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Bell, Hans F.
Notes on Trees and Tree Planting, CE:July 73:77

Bell, Lansford C.
See Conrad P. Heins, Jr., ST4:Apr 72:831:8835

Bell, Milo C.
See Ronald E. Nece, HYB:Aug 73:31

Bell, Thomas H.
See Kingsley G. Williams, ISSF:Aug 72:699

Bella, David A.
Environmental Planning and Ecological Possibilities, with W. Scott Overton, SA3:June 72:579:8994
Dsc: Robert C.H. Wilson, EE2:Apr 73:162:9635; Frederick C. Dean and Samuel J. Harbo, Jr., EE3:June 73:385:9758
TR:138:422
Dsc, PP4:Oct 73:536:10040, of "Engineering and Public Service - A Renaissance", PP1:Jan 73:1:9486

Bellomo, Salvatore J.
Benefit Measurements of Highway Electronic Route Guidance, with George K. Young, Jr., TE1:Feb 72:51:8742
Dsc: Bernard T. Higonnet, TE1:Feb 72:188:9526
TR:138:90

Belloni, Michele
Soil-Structure Interaction, with Michele B. Jamiolkowski, TB:73:Ia-11-990

Bellows, W. S., Jr.
Concrete Frame Construction, State-of-Art Report 6, TB:73:Ia-4-777

Belonogoff, George
Computer Simulation of Waterhammer Effects, TE3:Aug 72:521:9104
Dsc: Cheng W. Wang, TE3:Aug 73:679:9896
TR:138:323

Belyaev, V. S.
See R. V. Ozmidov, ISSF:Aug 72:595

Belytschko, Ted
Finite Element Method for Elastic Plastic Plates, with Milan Velebit, EM1:Feb 72:227:8724
Dsc: Jan Backlund, EM6:Dec 72:1603:9390
Clo: EM4:Aug 73:883:9894
TR:138:103
Static Force Analysis of the Human Spine, with A. B. Schultz and T. P. Andriacchi, Preprint No.2053, July 73
See Lawrence A. Loziuk, HY11:Nov 72:1983:9372
See Lawrence A. Loziuk, PO2:Nov 73:349:10150

Bender, Donald L.
See David L. Schreiber, HY3:Mar 72:429:8773

Bender, Ostap
Dsc, CE:Oct 72:82, on Poor Structural Design Brings West Gate Bridge Failure, CE:June 72:47

Benear, John B.
Product Segregation on Liquid Petroleum Pipelines, Preprint No.2056, July 73

Benedict, Barry A.
See Edward M. Polk, Jr., HY10:Oct 71:1639:8446
See Louis H. Motz, HY1:Jan 72:181:8669
See Jerry L. Anderson, ISSF:Aug 72:469

Benjamin, Jack R.
Probabilistic Methods, TB:73:Ib-10-1013

Benjamin, Neal B.H.
Competitive Bidding: The Probability of Winning, CO2:Sept 72:313:9218
Dsc: Pertti Naykki, CO1:July 73:224:9822
TR:138:601

Sensitivity Analysis of Douglas Equipment Life Model, CO1:Mar 72:61:8796
Errata: CO1:July 73:215:9822
TR:138:283
Simulating Effects of Weather on Construction, with Theodore W. Greenwald, CO1:July 73:175:9888

Bennett, Edwin R.
Economic Aspects of Sludge Dewatering and Disposal, with David A. Rein and K. Daniel Linstedt, EE1:Feb 73:55:9537
Dsc: P. Aarne Vesilind, EE5:Oct 73:754:10035

Bennett, James P.
At-Stream-Velocity Pumping Sediment Sampling System, HY6:June 73:873:9801
Dsc, SA5:Oct 72:802:9225, of "Effects of Dispersion on DO-sag in Uniform Flow", SA1:Feb 72:169:8743

Bennett, John A.
Dsc, CE:Apr 72:62, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Bennett, Ray S.
See Gaylord V. Skogerboe, IR4:Dec 72:569:9438

Benson, Manuel A.
Dsc, HY2:Feb 72:408:8681, of "Flood Frequency Estimating Techniques for Small Watersheds", HY9:Sept 71:1441:8383

Bentley, Richard L.
See Ronald G. Moreland, PO1:May 73:041:9714

Benz, Leo C.
See Eugene J. Doering, IR2:June 72:275:8964

Ben-Zvi, Arie
Dsc, HY7:July 73:1189:9823, of "Kinematic Wave Nomograph for Times of Concentration", HY10:Oct 72:1765:9275
See Ven Te Chow, HY11:Nov 73:2023:10172

Bercha, Frank G.
Numerical Analysis of Thick Shells of Revolution, with Peter G. Glockner, EM5:Oct 73:1053:10093
Thick Shell and Oriented Surface Theories, with Peter G. Glockner, EM4:Aug 72:823:9095
Errata: EM4:Aug 73:889:9894
TR:138:355

Beredugo, Youpele O.
See Milos Novak, SM12:Dec 72:1291:9412

Berg, Gerald
Integrated Approach to Problem of Viruses in Water, SA6:Dec 71:867:8590
Dsc: Malay Chaudhuri, SA6:Dec 72:1045:9393
TR:138:122

Berg, Glen V.
See Chang-Kuei Sun, EM1:Feb 73:183:9565
See Robert D. Hanson, Preprint No.1970, Apr 73

Berg, William D.
Local Rural Road Costs and Economies of Scale, TE4:Nov 72:881:9340
Dsc: David A. Weaver, TE3:Aug 73:685:9896
TR:138:478

Bergeron, William Joseph
See Robert Lee Thoms, RM14:73:393

Bergmann, E.
Wall Panel Resistance to Tornado-Borne Debris, with R. E. Welch and Anatole Longinow, SDNPF:Dec 73:425

Berklite, Ronald B.
See C. J. Garrison, EM1:Feb 73:99:9563

Berlamont, Jean
Solutions for Lateral Outflow in Perforated Conduits, with Andre Van der Beken, HY9:Sept 73:1531:10004

Berlyand, M. E.
Some Features of Turbulent Diffusion and Air Pollution in the Stratified Conditions, with E. L. Genikhovich, ISSF:Aug 72:125

Bernal, Reynaldo
See R. Wayne Skaggs, IR3:Sept 72:363:9183

Berndt, Harold D.
See Jimmy R. Williams, HY12:Dec 72:2087:9426

Berry, Ormond Robert
Architectural Seismic Detailing, State-of-Art Report 3, TB:73:Ia-12-1115
First National Bank of Oregon, TB:73:C-P-258
United California Bank, TB:73:C-P-251

Bert, Charles W.
Shear-Flexible Orthotropic Plates Loaded in Plane, with Shyming Chang, EM6:Dec 72:1499:9450
TR:138:602

Bertero, Vitelmo V.
Beam-Column Subassemblages Under Repeated Loading, with Egor P. Popov and Helmut Krawinkler, ST5:May 72:1137:8915
Dsc: Norman W. Hanson, ST1:Jan 73:225:9462
Clo: ST7:July 73:1649:9826
TR:138:268
Ductility and Seismic Response, TB:73:Ib-6-303
Effects of Generalized Excitations on the Non-Linear Behavior of Reinforced Concrete Structures, State-of-Art Report 5, TB:73:III-22-431
See Egor P. Popov, ST6:June 73:1189:9790

Berthouex, Paul M.
Dsc, SA5:Oct 72:804:9225, of "Design and Economics of Joint Wastewater Treatment", SA1:Feb 72:153:8746

Berwanger, Carl
Strength Development of Concrete Exposed in Winter, with V. M. Malhotra, Preprint No.1956, Apr 73

Bespflug, Keith E.
See Eli I. Robinsky, SM9:Sept 73:649:10009

Bessey, Roy F.
Planning for Resources--Environmental Conservation, HY11:Nov 73:2061:10173
Dsc, PO1:May 73:261:9690, of "Logical Approaches to Power Supply and Environment", PO2:Oct 72:181:9257

Bestor, George C.
City Planning Bibliography, with Holway R. Jones, CPB:72:
TR:138:266
Towards New Towns for America-Slowly, UP1:Mar 73:47:9591

Betz, Jack M.
Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division, SA2:Apr 72:299:8833
Dsc: Dennis W. Weeter, SA5:Oct 72:805:9225; Edmond B. Pugsley, SA5:Oct 72:806:9225; Douglas V. Smith, SA6:Dec 72:1055:9393; Santosh R. Goswami, SA6:Dec 72:1056:9393; Ralph Wagner, EE1:Feb 73:97:9521; Ashok N. Shahane, EE1:Feb 73:97:9521
Clo: EE5:Oct 73:744:10035
TR:138:321

Bezdek, Roger H.
See Bruce M. Hannon, PP4:Oct 73:521:10080

Bezzone, Albert P.
Pine Valley Creek Bridge Designing for Segmental Construction, Preprint No.1944, Apr 73

Bhagavantam, D.
Dsc, HY11:Nov 73:2140:10109, of "Orifice Losses for Laminar Approach Flow", HY11:Nov 72:2015: 9370

Bhamidipaty, Suryanarayana
Laboratory Study of Degradation and Aggradation, with Hsieh W. Shen, WW4:Nov 71:615:8493
  Dsc: Sutesaburo Sugio, WW4:Nov 72:588:9310
  TR:138:40

Bhandari, Dev R.
See J. Tinsley Oden, EM1:Feb 73:131:9554

Bhaskaran, Ravikumar
See Kolinjuvadi S. Sankaran, SM8:Aug 73:635:9892

Bhatia, Harbhajan S.
See J. W.S. de Graft-Johnson, SM11:Nov 72:1245: 9375

Bhatt, Prabhakara
Deep Beam on Statically Indeterminate Supports, EM4:Aug 73:793:9902
Dsc, ST7:July 73:1672:9826, of "Influence of Joints in Panelized Structural Systems", ST9:Sept 72:1943: 9207

Bhattacharya, Sunil K.
Deltaic Activity of Bhagirathi-Hooghly River System, WW1:Feb 73:69:9538
Evaluation of Harbor Deepening Projects, with Amarendra N. Biswas, WW1:Feb 73:111:9575
  Errata: WW4:Nov 73:501:10114

Bhayani, Kiran L.
See Calvin P.C. Poon, SA2:Apr 71:161:8020

Bhole, Anand G.
See Kenneth J. Ives, EE1:Feb 73:17:9540

Bidde, Devidas D.
Laboratory Study of Lift Forces on Circular Piles, WW4:Nov 71:595:8495
  Dsc: Jade Dattatri, WW3:Aug 72:421:9081
  TR:138:60

Biehl, Theodore G.
In-Line Structure Stores and Treats Combined Overflows, with David M. Waring, CE:Sept 72:62
  Dsc: Floyd A. Skow, CE:Jan 73:84
  TR:138:398

Bielak, Jacobo
See Ismael Herrera, EM5:Oct 73:1097:10041

Biesecker, James E.
Ground Water Quality, West Jefferson County, Colo., with Warren E. Hofstra and Dennis C. Hall, HYB:Aug 73:417

Billington, David P.
Art in Engineering - The Need for a New Criticism, PP4:Oct 73:499:10102
Deck-Stiffened Arch Bridges of Robert Maillert, ST7: July 73:1527:9862
Esthetics in Structural Design, CE:Oct 73:36
Structural Art and Robert Maillart, Preprint No.2108, Oct 73

Binger, Wilson V.
Tarbela Dam Project, Pakistan, PO2:Oct 72:221:9265
  Dsc: Raphael G. Kazmann, PO2:Nov 73:437: 10111
  TR:138:594

Birdsall, Blair
Main Cables of Newport Suspension Bridge, ST12: Dec 71:2825:8606
  Dsc: Tadeusz Janiszewski, ST2:Nov 72:335:8926; Hubert Shirley-Smith, ST11:Nov 72:2637:9307; William K. McGrath, ST12:Dec 72:2816:9395; Hugh S.G. Knox, ST12:Dec 72:2818:9395
  Clo: ST6:June 73:1315:9763
  TR:138:58
Dsc, ST8:Aug 72:1883:9079, of "Mechanical Properties of Structural Cables", ST12:Dec 71:2837: 8604

Birkeland, Philip W.
Dimensional Tolerance - Concrete, State-of-Art Report 5, with Leonard J. Westhoff, TB:73:Ib-9-845

Bishop, Floyd A.
General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division, IR2: June 72:317:8996
  Dsc: Robert L. McFall, IR1:Mar 73:115:9581; Robert E. Vansant, IR1:Mar 73:115:9581; W. Franklin G. Cardy, IR2:June 73:192:9761; Raphael G. Kazmann, IR2:June 73:192:9761; Deon Axthelm, IR2:June 73:194:9761; William R. Walker, IR2:June 73:195:9761
  TR:138:396

Bishop, Harold F.
A Master Planning Methodology for Urban Drainage, Preprint No.1887, Jan 73

Biskup, J. T.
Welding Inspection, State-of-Art Report 6, TB:73:Ib-9-851

Bisplinghoff, Raymond
Welcoming Remarks at the Tall Buildings Conference, TB:73:C-31

Biswas, Amarendra N.
See Sunil K. Bhattacharya, WW1:Feb 73:111:9575

Biswas, Asit K.
Dsc, PP4:Oct 73:546:10040, of "The Critical U.S. Energy Situation", PP2:Apr 73:171:9685

Biswas, Jayanta K.
See Wai K. Tso, ST3:Mar 73:365:9604

Bizri, H.
See Boris Bresler, TB:73:Ib-8-723

Bjerrum, Laurits
Embankments on Soft Ground, PES:73:II-1
  Dsc: Robert D. Holtz and Jan Wennerstrand, PES:73:III-59
Laurits Bjerrum, 54, Dies In London, CE:May 73:90
Session III - Shallow Foundations, PES:73:III-167
Memoir of, TR:138:616

Black, David K.
Saturating Laboratory Samples by Back Pressure, with Kenneth L. Lee, SM1:Jan 73:75:9484
See Kenneth L. Lee, SM2:Feb 72:181:8728

Blaisdell, Fred W.
Dsc, with Kesavarao Yalamanchili, HY12:Dec 72: 2236:9391, of "Siphons: Some Scale-Effects in Models", HY1:Jan 72:45:8629
Dsc, with Clayton L. Anderson, HY12:Dec 72:2237: 9391, of "Siphons: Some Scale-Effects in Models", HY1:Jan 72:45:8629
Dsc, HY12:Dec 72:2239:9391, of "Siphons: Some Scale-Effects in Models", HY1:Jan 72:45:8629

Blakeley, Roger W.G.
Prestressed Concrete Sections with Seismic Loading, with Robert Park, ST8:Aug 73:1717:9906

Blakey, Frank A.
Transverse Deflection of Floors - Creep, Shrinkage and Temperature Effects, State-of-Art Report 3, with John L. Heiman, TB:73:III-25-775

Blakney, William G.G.
Dsc, CE:Apr 72:59, on Anti-Technology--The New Myth, CE:Jan 72:68
Dsc, CE:July 73:22, on Where, Oh Where, Is Your Right-Of-Way Line? , CE:Mar 73:52

Blanc, Frederick C.
See Richard J. Thornton, EE4:Aug 73:535:9946

Blanchet, Ch.
Mardyck Lock Acts as Salt-Water Barrier, with B. Quetin, WW4:Nov 72:561:9387
TR:138:600

Blaze, James Robert
Restructuring Freight Transportation in Chicago, TE3:Aug 72:577:9115
TR:138:353

Blench, Thomas
Dsc, HY11:Nov 71:1908:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual", HY1:Jan 71:101:7786
See Richard H. Cooper, HY5:May 72:827:8873

Blesso, Francis J.
HUD Sewer Policy in Urban Renewal Areas, UP1:July 72:33:9035
TR:138:246

Blest, David Charles
Streamlines in Two-Dimensional Laminar Branch Flows, HY1:Jan 72:171:8656
TR:138:127

Bletzacker, Richard W.
Dsc, Fire-Automatic Sprinkler Performance In Australia And New Zealand 1886-1968, CE:June 73:34

Blight, Geoffrey E.
Fracture of Pavement Materials, TE4:Nov 73:801:10139

Blinco, Paul H.
Measurement of Instantaneous Boundary Shear Stress, with Daryl B. Simons, HYB:Aug 73:43

Blume, John A.
Analysis of Dynamic Earthquake Response, State-of-Art Report 3, TB:73:Ib-6-191
See Nathan M. Newmark, PO2:Nov 73:287:10142

Boardman, Thomas J.
See Walter H. Kraft, TE1:Feb 72:103:8740

Bobisch, William J.
Material Safety Requirements of Hyperbaric Facilities, with Michael Yachnis, ST7:July 72:1465:9019
TR:138:322

Bock, R. W.
See Fred C. Walker, SM10:Oct 72:1099:9272

Bodig, Jozsef
See Adam Al-Dabbagh, ST3:Mar 72:569:8784

Boehmer, Jan Willem
See John T. Christian, SM7:July 72:693:9030

Bogan, Richard H.
See LaVere B. Merritt, EE1:Feb 73:35:9578

Bohannan, Billy
FPL Timber Bridge Deck Research, ST3:Mar 72:729:8779
TR:138:169
See Joseph A. Liska, Preprint No.1929, Apr 73
See Joseph A. Liska, ST12:Dec 73:2345:10230

Bole, James B.
Dsc, WW2:May 73:288:9694, of "Physical Scales for Generation of Wind Waves", WW2:May 72:163:8879

Bolton, C.
See J. Aguirre, TB:73:C-P-466

Bolton, Richard
Stresses in Circular Plates on Elastic Foundations, EM3:June 72:629:8972
Dsc: Peter M. Byrne, EM2:Apr 73:415:9636
Clo: EM5:Oct 73:1095:10041
TR:138:297

Bonakdarpour, Bijan P.
See Conrad P. Heins, Jr., ST4:Apr 72:831:8835

Bonar, Albert J.
Research on Pipeline Flotation, with Osman I. Ghazzaly, TE2:May 73:211:9718

Bondurant, Donald C.
Dsc, HY11:Nov 72:2051:9305, of "River Bed Degradation After Closure of Dams", HY4:Apr 72:591:8814

Bonneau, William F.
See Terence J. McGhee, EE6:Dec 73:883:10205

Bonton, R. Brian
See Kenneth W. Heathington, PP1:Oct 71:65:8457

Booker, John R.
Torsion of Multilayered Rectangular Section, with Sritawat Kitipornchai, EM5:Oct 71:1451:8415
Dsc: Edwin F. Strandberg, EM5:Oct 72:1306:9221
Clo: EM3:June 73:597:9759
TR:138:3
Dsc, SM4:Apr 73:358:9639, of "Consolidation of a Layer Under a Strip Load", SM7:July 72:693:9030

Boonyakachon, Kach
See Masaru Tanaka, EE5:Oct 73:749:10035

Boos, George Frederick, Jr.
Memoir of, TR:138:617

Borcherding, John D.
Dsc, CO1:July 73:219:9822, of "Motivation of Construction Craftsmen", CO2:Sept 72:257:9185

Borden, Russell C.
Application of Epoxy Resins in Tunnel Lining Concrete Repair, with Carl E. Selander, CO2:Sept 72:161:9180
Errata: CO1:July 73:218:9822
TR:138:405

Borelli, John
See William E. Hart, IR2:June 72:267:8976

Borg, Robert F.
Dsc, CO1:July 73:213:9822, of "Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts", CO1:Mar 72:103:8781

Borges, J. Ferry
Stiffness and Crack Control, Summary, TB:73:III-24-727

Borgman, Leon E.
Probabilities For Highest Wave In Hurricane, WW2:May 73:185:9705

Borrelli, John
Treated Water Storage for Design Capacity Reduction, with Thomas M. Rachford, EE4:Aug 73:517:9941

Bortz, Seymour A.
Recycling Wastes for Structural Application, with Murray A. Schwartz, EM2:Apr 73:249:9648

Botsai, Elmer E.
Designing Against Infiltration, State-of-Art Report 4, TB:73:Ia-12-1131

Bourke, Robert H.
See Bard Glenne, WW4:Nov 72:433:9371

Bouthillier, Patrick H.
Oxygen Depletion in Ice Covered River, SA2:Apr 72:341:8841
Dsc: Thiruvenkatachari Viraraghavan, SA6:Dec 72:1058:9393; Clarence R. Forsberg, SA6:Dec 72:1058:9393
Clo: EE3:June 73:380:9758
TR:138:326

Bouwkamp, Jack G.
Large Diameter Pipe Under Combined Loading, with R. M. Stephen, TE3:Aug 73:521:9907
See James M. Becker, ST1:Jan 72:37:8624
See Alexander C. Scordelis, ST10:Oct 73:2031:10069

Bowen, F. M.
See W. H. Arch, TB:73:Ia-4-823

Bowen, Gordon
Metrication Progress in the United Kingdom, PP4: Oct 72:511:9261
TR:138:523

Bower, Blair T.
Residuals in Manufacture of Paper, with George O.G. Lof and William M. Hearon, EE1:Feb 73:1: 9543
Dsc: Cheng H. Chiang, EE5:Oct 73:756:10035
See Daniel P. Loucks, EE6:Dec 73:813:10202

Bower, John E.
Predicted Pullout Strength of Sheet-Piling Interlocks, SM10:Oct 73:765:10077
Suggested Design Guides for Beams with Web Holes, by the Subcommittee on Beams with Web Openings of the Task Committee on Flexural Members of the Structural Division, ST11:Nov 71:2707:8536
Dsc: Michael M. McCormick, ST12:Dec 72:2814: 9395
Clo: ST6:June 73:1312:9763
TR:138:30

Bower, Warren H.
Practical Design for Seismic Loads in Wood Roof Framing, Preprint No.1969, Apr 73

Bowers, C. Edward
See Charles C.S. Song, EE6:Dec 73:785:10209

Bowles, Gerald F.
Beneficiation of Auburn Dam Foundation, with Glenn S. Tarbox, Preprint No.1878, Jan 73

Bowles, Joseph E.
Dsc, SM6:June 73:478:9762, of "Bearing Capacity Theory From Experimental Results", SM12:Dec 72:1311:9411

Boyce, David E.
Assessing Impact of Urban Transportation, TE3:Aug 72:645:9111
Clo: TE3:Aug 73:682:9896
TR:138:330

Boyd, Donald E.
See Jack W. Vetter, EM1:Feb 72:177:8726
See D. Jack Bayles, ST5:May 73:853:9727

Boyd, Donald W.
Development of a Water Planning Model for Montana, with Theodore T. Williams, HYB:Aug 73: 269

Boyd, Edwin I.
See Richard A. Schleusener, HY9:Sept 72:1515:9187

Boyd, Walter K.
Factors Affecting Environmental Performance of High-Strength Bolts, with W. S. Hyler, ST7:July 73: 1571:9866

Boyer, LeRoy T.
See Robert C. Volkman, CO1:Mar 72:1:8756

Boyer, Walter C.
Containerization - A System Still Evolving, WW4: Nov 72:461:9317
TR:138:494

Boyle, William C.
See Harold J. Jebens, SA3:June 72:547:8974

Bragdon, Clifford R.
Noise Control in Urban Planning, UP1:Mar 73:15: 9590

Brakel, J.
List of Limit States, State-of-Art Report 2, TB:73:III-26-863

Brand, Edward W.
Load Tests on Small Foundations in Soft Clay, with Chai Muktabhant and Anan Taechathummarak, PES:72:I-903
Dsc: Jacob Feld, PES:73:III-174

Brannock, Robert N.
Dsc, CE:Apr 73:47

Bray, Dale I.
Dsc, HY12:Dec 72:2247:9391, of "Critical Review of Sediment Transport Experiments", HY5:May 72: 827:8873
See Rolf Kellerhals, HY8:Aug 71:1165:8279

Bray, Oscar S.
State of the Society, PP4:Oct 72:481:9291
TR:138:602
Welcoming Remarks at the Tall Buildings Conference, TB:73:C-27

Brebbia, Carlos A.
See Robert A. Adey, EM6:Dec 73:1119:10206

Bree, D.
Dsc, with H. S. Rao, HY3:Mar 73:540:9580, of "Computer Analysis of Water Distribution Systems: Part II--Numerical Solution", HY3:Mar 72:447: 8782

Brekke, T. L.
See J. C. Sharp, RM14:73:481

Brenchley, David
Purdue Students Tackle Social Projects, with Jim Spencer, Dave Bell, Kevin Wolka and Max Hale, CE:Mar 73:83

Bresler, Boris
Reinforced Concrete Column Response to Fire, with H. Bizri, TB:73:Ib-8-723
Stability, Summary Report, TB:73:III-23-631

Breth, Herbert
Axial Stress-Strain Characteristics of Sand, with Ernst Schuster and Prabhakar J. Pise, SM8:Aug 73: 617:9919

Bretnall, William C.
See R. M. Gensert, TB:73:III-27-1069

Brett, Robert W.J.
See John J. Davis, EE3:June 73:301:9803

Brettle, Horace J.
Ultimate Strength Design of Composite Columns, ST9:Sept 73:1931:9975

Brewer, Kenneth A.
Estimation of General Aviation Air Traffic, with Stanley L. Ring and Robert L. Carstens, Preprint No.2041, July 73

Brezonik, Patrick L.
See Earl E. Shannon, SA1:Feb 72:37:8735

Brier, Burgess Buell
Memoir of, TR:138:618

Brierley, Gary
Dsc, with David Thompson, SM11:Nov 72:1273:9306, of "Heave and Lateral Movements Due to Pile Driving", SM11:Nov 71:1513:8497

Briggs, Richard E.
Overview of Transportation Legislation, PP3:July 73:381:9883

Briggs, Robert C., Jr.
Pavement Crushed, Reused to Strengthen Runway Base, CE:Apr 73:82

Brill, Murray I.
Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), CE:June 72:56
  Dsc: Murray I. Brill, CE:Sept 72:61; James R. Libby, CE:Dec 72:58; Benton S. Murphy, CE:Dec 72:58
  Clo: CE:Jan 73:80
  TR:138:284
Dsc, CE:Sept 72:61, on Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), CE:June 72:56
Dsc, CE:Jan 73:52, on An American Engineer in Israel, CE:June 72:63

Brinckloe, William D.
Continuing Education in Mid-Career: The Graduate Public Works Program at Pittsburgh, Preprint No.2054, July 73

Brindley, John H.
Dsc, SA5:Oct 72:795:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825:8575

Britton, Paul W.
Improving Manual Solid Waste Separation Studies, SA5:Oct 72:717:9234
  Errata: EE4:Aug 73:561:9893
  TR:138:454

Brockenbrough, Roger L.
Strength of Square-Tube Connections Under Combined Loads, ST12:Dec 72:2753:9425
  Errata: ST4:Apr 73:798:9640
  TR:138:581
Survey of Curved Girder Bridges, Subcommittee on Curved Girders, CE:Feb 73:54

Brodka, Jan
Optimization of Steel-Building Components, State-of-Art Report 4, with Josef Wilbik, TB:73:II-14-201

Brogan, Darryl K.
See Charles G. Culver, ST10:Oct 72:2291:9302

Broman, R.
Structural Evaluation of Nuclear Plant Facilities for Pipe Rupture, SDNPF:Dec 73:151

Broms, Bengt B.
Settlements of Pile Groups, PES:73:III-181
See Robert D. Holtz, PES:72:I-435

Bromwell, Leslie G.
See W. David Carrier, III, SM11:Nov 73:979:10156

Brooks, Royal H.
Water Management by Shallow Drainage, with John C. Nibler, Preprint No.1868, Jan 73

Brosman, David R.
Dsc, with Joseph F. Malina, Jr., SA3:June 72:606:8928, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605

Brotchie, John F.
Econometric Model to Aid in Urban Planning Decisions, with Ron Sharpe and A. Ray Toakley, UP1:Mar 73:25:9587
See Michael Raymond Toakley, CO2:Sept 72:149:9163
See M. P.T. Linzey, TB:73:C-AC31-183

Broughton, Peter
See James F. Dickie, EM5:Oct 72:1308:9221
See James F. Dickie, EM1:Feb 73:1:9520

Browand, F. K.
An Experiment on the Growth of Small Disturbances at the Interface Between Two Streams of Different Densities and Velocities, with Y. H. Wany, ISSF:Aug 72:493

Brown, Douglas R.
Compaction Grouting, with James Warner, SM8:Aug 73:589:9908

Brown, Edwin T.
Dsc, with John A. Hudson, EM5:Oct 72:1310:9221, of "Griffith Fracture Criterion and Concrete", EM6:Dec 71:1663:8597
See John A. Hudson, RM14:73:25

Brown, Gerald R.
Policy-Sensitive Model for Mode Split Planning, TE4:Nov 73:711:10123

Brown, Linfield C.
See Stephen Walsh, EE3:June 73:333:9796

Brown, Peter T.
Rectangular Loads on Inhomogeneous Elastic Soil, with Robert E. Gibson, TN: SM10:Oct 73:917:10042
See Ian K. Lee, ST11:Nov 72:2413:9352

Brown, Robert G.
Dsc, CE:Sept 73:31, on "Quo Vadis, ASCE?", CE:June 73:59

Brown, Robert J.
Pipeline Design to Reduce Anchor and Fishing Board Damage, TE2:May 73:199:9716

Brown, Stephen F.
Dynamic Response of Model Pavement Structure, with David I. Bush, TE4:Nov 72:1005:9363
  Dsc: Kenneth R. Peattie, TE3:Aug 73:688:9896
  TR:138:541

Brownstein, Charles
Societal Factors and Tall Buildings, State-of-Art Report 2, with Leonard Ruchelman, TB:72:C-AC19-151

Browzin, Boris S.
Dsc, with Larry A. White, SM12:Dec 72:1404:9394, of "Approximate Solution to Flow Problems Under Dams", SM11:Nov 71:1573:8528

Brozzetti, J.
Columns Design in Buildings, State-of-Art Report 1, with J. Fourcriat, TB:73:II-16-415

Bruch, John C., Jr.
Nonlinear Equation of Unsteady Ground-Water Flow, HY3:Mar 73:395:9589

Bruinette, Konstant E.
Structural Standards for Reinforced Concrete in South Africa, State-of-Art Report 5, TB:73:III-20-87

Brumund, William F.
Subsidence of Sand Due to Surface Vibration, with Gerald A. Leonards, SM1:Jan 72:27:8648
TR:138:133
Dsc, with Gordon W. Callender, Jr., SM8:Aug 72:830:9078, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447

Brungraber, Robert J.
Guide for the Design of Aluminum Transmission Towers, by the Task Committee on Lightweight Alloys of the Committee on Metals of the Structural Division, ST12:Dec 72:2785:9457
TR:138:596
The Use of Lightweight Alloys in Tall Buildings, TB:73:Ia-3-623
See Jai B. Kim, PES:72:I-1105

Brusven, Merlyn A.
See Robert J. Luedtke, HYB:Aug 73:259

Brutsaert, Wilfried
Review of Green's Function for Linear Open Channel, EM6:Dec 73:1247:10236
Dsc, HY2:Feb 72:406:8681, of "Mechanics of Sheet Flow Under Simulated Rainfall", HY9:Sept 71:1367:8373
See John A. Mawdsley, HY1:Jan 73:99:9483

Brutsaert, Willem F.
Numerical Solution of Multiphase Well Flow, HY11:Nov 73:1981:10162
Dsc, HY9:Sept 73:1632:9961, of "Perturbation Analysis of Two-Phase Infiltration", HY9:Sept 72:1527:9186

Bruun, Per Moller
Dsc, WW4:Nov 72:594:9310, of "Effect of Irregular Wave Trains on Rubble-Mound Breakwaters", WW1:Feb 72:1:8693

Bryan, E. R.
Stiffening Effect of Light Cladding, State-of-Art Report 4A, with J. M. Davies, TB:73:II-17-643

Bryant, Edward K.
Opportunities for American Engineers in Overseas Work, PP4:Oct 73:433:10084

Bryce, J. B.
Thermal Plume Measurements in Lake Ontario and Resulting Phenomenological Model, with R. V. Elliott, ISSF:Aug 72:145

Bubenheim, Hans-Joachim
See Gert Konig, TB:73:III-23-613

Bubnov, S.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-518
Damage Evaluation, State-of-Art Report 5B, TB:73:Ib-6-247

Buchert, Kenneth P.
Unreinforced Masonry Load-Bearing Walls, CE:Dec 73:64

Buchignani, Albert L.
See James M. Duncan, SM9:Sept 73:687:10019

Bucks, Dale A.
See Lloyd E. Myers, IR3:Sept 72:341:9175

Buehring, Norman L.
Developing Younger Member Communication, Preprint No.1967, Apr 73
Developing Younger Member Communication, PP3:July 73:321:9876

Bugge, William A.
BART in Operation -- New Innovations in Rapid Transit, Preprint No.2060, July 73

Bugliarello, George
Civil Engineering and National Goals in Bioengineering, PP4:Oct 72:645:9282
TR:138:591
Computer Languages and Program Libraries, by the Task Committee on Problem Orientation Languages in Hydrology of the Committee on Surface-Water Hydrology of the Hydraulics Division., HY7:July 72:1243:9072
TR:138:397
Technological Innovation and Hydraulic Engineering, HY5:May 72:751:8897
Dsc: Gordon R. Williams, HY10:Oct 72:1892:9222
TR:138:278
Toward A Socio-Technology of High Rise Buildings, with Harold Simon, TB:73:Ia-1-270

Bull, Keith D.
Seismic Design of Highway Structures, ST8:Aug 72:1741:9135
TR:138:393

Bullen, Allan G.R.
Strategies for Practical Expressway Control, TE3:Aug 72:599:9140
TR:138:417

Bulsari, Bakul S.
See Manhar C. Thakkar, ST1:Jan 72:61:8632

Buragohain, Dhirendra N.
Analysis of Curved Box Girder Bridges, with Babu L. Agrawal, ST5:May 73:799:9715

Buras, Nathan
Planning and Updating Farm Irrigation Schedules, with Dov Nir and Elyahu Alperovits, IR1:Mar 73:43:9586

Burdette, Edwin G.
Tests of Four Highway Bridges to Failure, with David W. Goodpasture, ST3:Mar 73:335:9627
Errata: ST12:Dec 73:2506:10185

Bureau, Gilles J.
See Richard E. Goodman, RM14:73:441

Burges, Stephen J.
Probabilistic Short-Term River Yield Forecasts, with Allen E. Johnson, IR2:June 73:143:9785
Some Problems with Log-Normal Markov Runoff Models, HY9:Sept 72:1487:9169
TR:138:443
Systems Approach to River Basin Management, with Brian W. Mar, Preprint No.1877, Jan 73

Burke, Harris H.
Current Practice in Abutment and Foundation Treatment, with Charles S. Content and Richard L. Kulesza, SM10:Oct 72:1033:9268
Errata: SM8:Aug 73:636:9892
TR:138:489

Burke, Jack W.
See Schaefer J. Dixon, Preprint No.1977, Apr 73
See Schaefer J. Dixon, SM11:Nov 73:921:10133

Burmeister, Wesley J.
Wisconsin Paves Directly on Sand Subgrade, CE:Aug 73:52

Burnes, John A.
Water Resources Development: Tocks Island Lake, Preprint No.2081, Oct 73
Dsc, ST1:Jan 73:217:9462, of "Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division", ST4:Apr 72:845:8842

Burnett, Eric F.P.
Influence of Joints in Panelized Structural Systems, with R. Clement S. Rajendra, ST9:Sept 72:1943:9207
Dsc: Prabhakara Bhatt, ST7:July 73:1672:9826
TR:138:465

Burns, Robert E.
Urban Road Pricing Through Selective Parking Taxes, TE4:Nov 72:739:9316
TR:138:440

Burroughs, Edward R., Jr.
Volume of Snowmelt Intercepted by Logging Roads, with Michael A. Marsden and Harold F. Haupt, IR1:Mar 72:1:8770
Dsc: Charles F. Leaf, IR3:Sept 72:507:9157
Clo: IR1:Mar 73:113:9581
TR:138:145

Busby, Henry R., Jr.
Response of Nonlinear Beam to Random Excitation, with Victor I. Weingarten, EM1:Feb 73:55:9530

Bush, David I.
See Stephen F. Brown, TE4:Nov 72:1005:9363

Butler, Lorne J.
Eccentrically Loaded Welded Connections, with Shubendu Pal and Geoffrey L. Kulak, ST5:May 72:989:8874
TR:138:233

Butrico, Frank A.
Statewide Management-What Does the Future Hold?, with James B. Coulter, SA1:Feb 72:247:8739
TR:138:244
Two Men Nominated For President Elect Frank A. Butrico, Nominee By Petition, CE:July 73:90
Views of Candidates for President-Elect: Butrico, CE:July 73:91

Buyukozturk, Oral
Deformation and Fracture of Particulate Composite, with Arthur H. Nelson, EM3:June 72:581:8970
TR:138:292

Bychenkov, Yu D.
See A. P. Vasiliev, TB:73:Ia-3-489

Byrne, Peter M.
Dsc, SM9:Sept 72:963:9158, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447
Dsc, EM2:Apr 73:415:9636, of "Stresses in Circular Plates on Elastic Foundations", EM3:June 72:629:8972

Byrne, Wayne S.
Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts, CO1:Mar 72:103:8781
Dsc: Jack H. Eakin, CO1:July 73:212:9822; Robert F. Borg, CO1:July 73:213:9822
TR:138:257

Caddie, George H.
See Andrew M. Torrance, HY5:May 72:960:8859

Cafferty, Michael
Transit's Need for Assured Federal Aid, TE2:May 73:289:9735

Cagley, James R.
Systems Approach to Building, CE:Apr 73:59
Dsc: Paul B. Richards, CE:Aug 73:20; James R. Cagley, CE:Aug 73:20
Clo: CE:Aug 73:20
Dsc, CE:Aug 73:20, on Systems Approach to Building, CE:Apr 73:59

Calcagni, E.
Characteristics of Chilean Tall Buildings, with G. Rudolfo Saragoni, TB:73:C-P-462
See Joaquin Monge, TB:73:III-21-310

Calhoon, Max L.
Simplified Method to Calculate Settlement Beneath Footings, CE:Feb 72:73
TR:138:110
Dsc, SM3:Mar 72:306:8751, of "Initial Settlement of Structures on Clay", SM10:Oct 71:1359:8438

Calhoun, Ronald J.
See Edward B. Thornton, WW4:Nov 72:443:9318

Callander, R. A.
Dsc, WW4:Nov 71:766:8488, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155:7869

Callender, Gordon W., Jr.
See William F. Brumund, SM8:Aug 72:830:9078

Calvert, James D.
New Approach to Power Plant Siting, with William L. Heilman, PO1:June 72:93:8981
TR:138:201

Camellerie, J. F.
Hybrid Frame Construction (Steel & Concrete), State-of-Art Report 7, TB:73:Ia-4-781

Camfield, Frederick E.
Dsc, WW2:May 73:290:9694, of "Containerization and Its Impact on Port Development", WW3:Aug 72:333:9126
Dsc, WW3:Aug 73:410:9897, of "Maximum Breaker Height", WW4:Nov 72:529:9384

Camp, Thomas R.
Backwashing of Granular Water Filters, with S. David Graber and Gerard T. Conklin, SA6:Dec 71:903:8605
Dsc: David R. Brosman and Joseph F. Malina, Jr., SA3:June 72:606:8928; Ross Gregory, SA4:Aug 72:680:9077; Byong S. Shin and Richard I. Dick, SA5:Oct 72:799:9225; Andre Leclerc and Truong Tri Vu, SA6:Dec 72:1046:9393
Clo: EE4:Aug 73:547:9893
TR:138:143

Campanella, Richard E.
See Y. P. Vaid, SM5:May 72:508:8860

Campbell, Douglas W.
Schedule Risk Analysis, EPMT:73:47

Canham, Robert A.
Design Standards for Wastewater Treatment Systems, with Louis L. Guy, Jr., CE:Feb 72:40
Dsc: Eugene T. Jensen, CE:July 72:69
TR:138:70

Canizo, L.
Dsc, with C. Sagaseta, SM8:Aug 72:831:9078, of "Finite Element Analyses of Retaining Wall Behavior", SM12:Dec 71:1657:8583

Capper, Walter E.
Current Practices in Highway Maintenance: A Reference List, Committee on Construction, Maintenance and Operation of Highways of the Highway Division., TE2:May 72:421:8918
TR:138:260

Cardenas, Alex E.
Stiffness of Reinforced Concrete Plates, with Rolf J. Lenschow and Mete A. Sozen, ST11:Nov 72:2587:9368
TR:138:566

Cardy, W. Franklin G.
Dsc, IR2:June 73:192:9761, of "General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division", IR2:June 72:317:8996

Carlson, W. J.
See S. M. Cho, HYB:Aug 73:141

Carmona, Juan S.
Earthquake Effects on the Masonry of Multistory Buildings, TB:73:Ib-6-284

Carney, John F.
See Richard J. Stuart, TN: EM4:Aug 73:907:9898

Caron, Claude
Dsc, SM10:Oct 73:891:10038, of "Strength Properties of Chemically Solidified Soils", SM11: Nov 72:1163:9332

Carp, Frances M.
Transportation and Retirement, TE4:Nov 72:787: 9341
TR:138:484

Carpena, A.
Stability, Summary Report, TB:73:II-16-605

Carr, James K.
Dsc, CE:May 72:65, on People, Ecology and the Aswan High Dam, CE:Feb 72:37

Carr, Robert I., Jr.
Dsc, CO2:Sept 72:360:9155, of "Planning Monitoring Frequencies for CPM Projects", CO2:Nov 71:211: 8503

Carrier, W. David, III
Analysis of an Inhomogeneous Elastic Half-Space, with John T. Christian, TN: SM3:Mar 73:299:9632
Behavior of Returned Lunar Soil in Vacuum, with Leslie G. Bromwell and R. Torrence Martin, SM11: Nov 73:979:10156
The Nature of Lunar Soil, with James K. Mitchell and Arshud Mahmood, SM10:Oct 73:813:10099

Carstens, Marion R.
Bed-Material Transport and Bed Forms, with Hilmi D. Altinbilek, HY5:May 72:787:8890
TR:138:273

Carstens, Robert L.
See Kenneth A. Brewer, Preprint No.2041, July 73

Cartelli, Vincent R.
Beam-To-Girder Connections, TB:73:II-15-371

Carter, Archie N.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Carter, Everett C.
See Frederick J. Wegmann, TE2:May 73:323:9734

Carter, John L.
Effects of Iron on Activated Sludge Treatment, with Ross E. McKinney, EE2:Apr 73:135:9679
Dsc: Ronald D. Neufeld and Edward R. Hermann, EE6:Dec 73:966:10180

Carter, Rufus H.
Dsc, with Walton M. Youngblood, SA4:Aug 72:663: 9077, of "Cost of Residential Solid Waste Collection", SA5:Oct 71:563:8403

Carter, Trevor G.
Mass Transport by Waves and Offshore Sand Bedforms, with Philip L-F. Liu and Chiang C. Mei, WW2:May 73:165:9699
Errata: WW4:Nov 73:502:10114

Cartwright, Keros
See George M. Hughes, CE:Mar 72:70

Casagrande, Arthur
The Baldwin Hills Reservoir Failure in Retrospect, with Stanley D. Wilson and E. Douglas Schwantes, Jr., PES:72:I-551
Dsc: Robert O. Castle and T. Leslie Youd, PES: 73:III-91
Clo: PES:73:III-103

Casagrande, Leo
Comments on Conventional Design of Retaining Structures, SM2:Feb 73:181:9568
Dsc: Walter B. Lum, SM8:Aug 73:648:9892; Hugh Q. Golder, SM10:Oct 73:900:10038

Case, Fred E.
Economics of Water Quality and Wastewater Control, SA2:Apr 72:427:8856
TR:138:353

Cassano, Robert C.
Earthquake Codes -- Poison or Panacea?, Preprint No.1947, Apr 73

Cassidy, John J.
Dsc, HY1:Jan 73:267:9459, of "Flow Over Rounded Spillways", HY2:Feb 72:365:8704

Castellani, Alberto
Expected Value of Ultimate Load Factor, TN: ST2: Feb 73:291:9545
Uncertainties in Elastic Design for Seismic Motions, TB:73:II-14-229

Castle, Robert O.
Dsc, with T. Leslie Youd, PES:73:III-91, of "Analysis of Failure of Baldwin Hills Reservoir", PES:72:I-507
Dsc, with T. Leslie Youd, PES:73:III-91, of "The Baldwin Hills Reservoir Failure in Retrospect", PES:72:I-551

Castleton, Gary A.
See Raymond Eugene Davis, ST1:Jan 72:165:8631

Catanach, Richard B.
Lateral Deformation of a Dam Embankment, with Thomas N. McDaniel, PES:72:I-867
Clo: PES:73:III-161

Catanzaro, George V.
See Amir N. Nahavandi, HY1:Jan 73:47:9472

Catton, Ivan
See Richard M. Clever, HY3:Mar 73:485:9611

Cecil, Edward A.
Dry-Type Cooling Towers, with Paul R. Cunningham, Clarence J. Steiert and Roger O. Young, PO1:June 72:11:8967
TR:138:92

Cembrowicz, Ralf G.
Capital Cost Minimization of Hydraulic Network, with Joseph J. Harrington, HY3:Mar 73:431:9606
Errata: HY9:Sept 73:1649:9961
Dsc, with Joseph J. Harrington, HY10:Oct 72:1890: 9222, of "Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations", HY2: Feb 72:335:8729
Dsc, with Joseph J. Harrington, HY10:Oct 72:1890: 9222, of "Computer Analysis of Water Distribution Systems: Part II--Numerical Solution", HY3:Mar 72:447:8782

Center, Gustavus W.
Emergency Redesign of Silver Jack Spillway, with Thomas J. Rhone, Preprint No.1899, Jan 73
Emergency Redesign of Silver Jack Spillway, PO2: Nov 73:265:10151

Ceradini, Giulio
Dsc, with Carlo Gavarini, EM6:Dec 73:1299:10181, of "Unified Approach to the Theory of Plastic Structures", EM5:Oct 72:1133:9246

Cermak, Jack E.
Wind Effects on Tall Buildings -- Areas for Research, TB:73:Ib-7-435
See Willy Z. Sadeh, EM6:Dec 72:1365:9445

Cerny, L.
Column-Supported Shear Walls With Openings, TB:73:III-21-282

Chadwick, Dean O.
Dsc, CE:Nov 73:38, on San Antonio: Classic "Stop the Freeway" Case, CE:July 73:59

Chai, James W.
Dsc, ST9:Sept 72:2133:9159, of "Automated Design of Trusses for Optimum Geometry", ST3:Mar 72:671:8795
Dsc, EM5:Oct 73:1102:10041, of "Inelastic Lateral Buckling of Restrained Beams", EM2:Apr 73:343:9666
Dsc, ST11:Nov 73:2328:10113, of "Prestressed Composite Steel Beam Design", ST3:Mar 73:301:9594

Chaiken, Eugene I.
Muskegon Sprays Sewage Effluents on Land, with Stephen Polincsik and Carl D. Wilson, CE:May 73:49
  Dsc: Richard D. Harza, CE:July 73:28; William A. Drewry, CE:Sept 73:29; Glenn W. Rehberger, CE:Sept 73:29
  Errata: CE:Aug 73:20
  Clo: CE:Sept 73:29

Chakrabarti, Subrata K.
Nonlinear Wave Forces on a Vertical Cylinder, HY11:Nov 72:1895:9333
  Dsc: C. J. Garrison, HY7:July 73:1196:9823; Yuan Jen and Lars Skjelbreia, HY11:Nov 73:2135:10109
  TR:138:542
Wave Forces on Pile Including Diffraction and Viscous Effects, HY8:Aug 73:1219:9935
Wave Forces on Submerged Objects of Symmetry, WW2:May 73:147:9698
Dsc, WW4:Nov 72:591:9310, of "Regular Wave Effects on Walls Made of Cylinders", WW4:Nov 71:735:8547
See Charles P. Rains, WW1:Feb 72:35:8713

Chamberlain, Edwin J.
Dsc, with Paul A. Lilienthal, TE3:Aug 73:678:9896, of "Settlement of Pipeline on Thawing Permafrost", TE3:Aug 72:477:9090

Chammings, Maurice B.
See Frederick R. Martin, TE4:Nov 73:785:10154

Chan, Clarence K.
See N. Dean Marschi, SM1:Jan 72:95:8672

Chan, Samuel S.M.
Correlations of Modulus of Deformation by the Use of a Combined In-Situ Deformation Measurement and Finite-Element Method -- Abstract, with Grant L. Anderson, RM14:73:757

Chan, Stevens T.K.
Fluid Flows from Axisymmetric Orifices and Valves, with Bruce E. Larock, HY1:Jan 73:81:9465
  Errata: HY11:Nov 73:2154:10109
Free-Surface Ideal Fluid Flows by Finite Element, with Bruce E. Larock and Leonard R. Hermann, HY6:June 73:959:9787
See Richard H. Gallagher, HY7:July 73:1083:9855

Chander, Subhash
See Karam S. Karki, HY10:Oct 72:1753:9235

Chandrasekaran, Anjur R.
Virtual Mass of Submerged Structures, with Sarjit S. Sani and M. M. Malhotra, HY5:May 72:887:8923
  TR:138:308
See Sarjit S. Saini, ST7:July 72:1395:9015

Chandrasekhar, Chithradurga S.
Dsc, ST2:Feb 72:538:8684, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71:2203:8353

Chandrasekharan, D.
Dsc, with Ramaswamy Sakthivadivel, HY12:Dec 72:2229:9391, of "Characteristics of Flow Weirs of Finite Crest Width", HY11:Nov 71:1807:8515

Chandrashekar, M.
See H. K. Kesavan, HY2:Feb 72:345:8709

Chang, Fu-Kuei
Human Response Factors, Theme Report, TB:73:C-AC19-137
Human Response to Motions in Tall Buildings, ST6:June 73:1259:9811
Psychological Aspects of Man-Structure Interaction, State-of-Art Report 6, TB:73:Ia-1-165

Chang, Hai Yain
Flume Experiments on Alternate Bar Formation, with Daryl B. Simons and David A. Woolhiser, WW1:Feb 71:155:7869
  Dsc: Frank Engelund, WW3:Aug 71:590:8272; R. A. Callander, WW4:Nov 71:766:8488; Mohammad Akram Gill, WW4:Nov 71:768:8488; Alvin G. Anderson, WW1:Feb 72:86:8686
  Clo: WW1:Feb 73:127:9527
  TR:137:871

Chang, Nien-Yin
See Tien H. Wu, SM4:Apr 73:323:9687

Chang, P. C.
A Field Laboratory for Stratified Flow Studies, with A. Lin, ISSF:Aug 72:501

Chang, Shyming
See Charles W. Bert, EM6:Dec 72:1499:9450

Chang, Tse Yung
Nonisothermal Kinematic Hardening Law in Plasticity, TN: EM2:Apr 73:423:9641

Changnon, Stanley A., Jr.
Inadvertent Weather and Precipitation Modification by Urbanization, IR1:Mar 73:27:9608
A Precipitation Enhancement Program for Illinois, Preprint No.1896, Jan 73
Precipitation Enhancement Program for Illinois, IR3:Sept 73:215:9983

Chantaramungkorn, Kasem
Eccentrically Loaded Circular Plates on Columns, with Pasidhi Karasudhi and Seng-Lip Lee, TN: ST1:Jan 73:234:9464

Chao, Ta
Stability of Trusses Subjected to Ponding Loads, TN: ST6:June 73:1327:9767

Chaplin, John R.
Computer Model of Vortex Shedding From a Cylinder, HY1:Jan 73:155:9491

Chapman, K. R.
Performance of a Braced Excavation in Granular and Cohesive Soils, with Edward J. Cording and Harry Schnabel, Jr., PES:73:III-271

Chapman, Leon D.
Investing in Regional Highway Networks, TE2:May 73:353:9742

Chapman, Roger S.
Powerline Foundations Installed along Railroad Tracks, CE:Oct 72:64
  TR:138:462

Chapus, Edmond E.
Dsc, with Jacques L. Dubouchet, HY8:Aug 73:1270:9895, of "Start-up Pressures in Short Pump Discharge Lines", HY7:July 72:1117:9014

Char, Channagiri Vedavyasa
See Robert Lee Thoms, RM14:73:393

Charles, Andrew
See Arthur Penman, SM2:Feb 73:139:9560

Charles, Carl O.A.
See Don J. Wood, HY7:July 72:1157:9031

Charles Luckman Associates
Prudential Insurance Tower, TB:73:C-P-358
University of Delaware Dormitories, TB:73:C-P-360

Charlton, Frederick G.
Dsc, HY8:Aug 72:1461:9076, of "Sediment Transport Measurements in Gravel River", HY11:Nov 71:1817:8521

Chatterjee, Anadi
See Arunendu Sen, WW2:May 73:283:9694

Chatterjee, Arun
Forecasting Regional Travel on Regional Highway Network, with Paul D. Cribbins, TE2:May 72:209:8885
  Dsc: Stephen Quinnan, TE2:May 73:426:9691
  Clo: TE4:Nov 73:957:10110
  TR:138:162

Chaudhry, Mohammad Hanif
Dsc, PO1:June 72:155:8927, of "Integration Of Pumped-Storage With Tidal Power", PO1:Jan 71:159:7810
See Wayne A. Johnson, PO1:June 72:179:8

Chaudhuri, Malay
Dsc, with Richard S. Engelbrecht, SA6:Dec 71:944:8555, of "Metal Toxicity to Sewage Organisms", SA2:Apr 71:161:8020
Dsc, SA4:Aug 72:674:9077, of "Amoebic Cysticidal Properties of Halogens in Water", SA6:Dec 71:801:8567
Dsc, SA6:Dec 72:1045:9393, of "Integrated Approach to Problem of Viruses in Water", SA6:Dec 71:867:8590
Dsc, SA6:Dec 72:1051:9393, of "Kinetics of Chlorine Disinfection in an Ecosystem", SA1:Feb 72:183:8727

Chaudry, M. Hanif
Resonance in Pipes Having Variable Characteristics, HY2:Feb 72:325:8691
  TR:138:159

Chauhan, H. S.
See Pratap Singh, IR3:Sept 72:443:9212
See Pratap Singh, IR1:Mar 73:111:9581
See Pratap Singh, IR2:June 73:186:9761

Chawla, A. S.
Boundary Effects on Stability of Structures, HY9:Sept 72:1557:9199
  Dsc: S. Thiruvengadachari, HY8:Aug 73:1277:9895; V. C. Kulandaiswamy and S. Muthukumaran, HY11:Nov 73:2131:10109
  TR:138:481

Cheely, Albert H.
See Kenneth S. Price, EE3:June 73:283:9797

Chen, A.
See S. Covarrubias, TB:73:C-AC11-63

Chen, Carl W.
Predicting Quality Effects of Pumped Storage, with Gerald T. Orlob, PO1:June 72:65:8984
  TR:138:255

Chen, Chang
Dsc, with Garry J. Patterson and Don K. Croneberger, PO2:Nov 73:429:10111, of "Interaction of Soil and Power Plants in Earthquakes", PO2:Oct 72:273:9242

Chen, Kenneth Y.
Oxidation of Sulfide by O_2: Catalysis and Inhibition, with J. Carrell Morris, SA1:Feb 72:215:8710
  TR:138:181

Chen, Kuo-Kuang
See Neng-Ming Wang, EM4:Aug 73:867:9929

Chen, Peter W.
Design Developments - North & South America, State-of-Art Report 6, TB:73:Ib-7-423
Human Perception Thresholds of Horizontal Motion, with Leslie E. Robertson, ST8:Aug 72:1681:9142
  TR:138:397

Chen, Stephen C.
Similkameen Pipeline Suspension Bridge, with John G. McMullan, Preprint No.1983, Apr 73

Chen, Wai F.
Bearing Capacity Determination by Limit Analysis, with Hugh L. Davidson, SM6:June 73:433:9816
Bearing Strength of Concrete Blocks, TN: EM6:Dec 73:1314:10187
Behavior of Biaxially Loaded Columns, TB:73:II-16-575
Behaviour of Concrete-Filled Steel Tubular Columns, TB:73:III-23-608
Column Web Strength in Beam-to Column Connections, with David E. Newlin, TN: ST9:Sept 73:1978:9968
Frame Analysis Considering Connection Shear Deformation, with David J. Fielding, TB:73:II-15-365
Inelastic Response of Column Segments Under Biaxial Loads, with Toshio Atsuta, EM4:Aug 73:685:9957
Interaction Equations for Biaxially Loaded Sections, with Toshio Atsuta, ST5:May 72:1035:8902
  Dsc: Boyd C. Ringo and James F. McDonough, ST5:May 73:955:9693
  Clo: ST12:Dec 73:2488:10185
  TR:138:245
Simple Interaction Equations for Beam-Columns, with Toshio Atsuta, ST7:July 72:1413:9020
  Dsc: Benjamin Koo, ST3:Mar 73:588:9583
  Clo: ST10:Oct 73:2210:10039
  TR:138:326
Dsc, ST5:May 72:1193:8861, of "Stability and Load Capacity of Members with No Tensile Strength", ST7:July 71:1913:8253
See Sakda Santathadaporn, ST1:Jan 72:153:8637
See Ivan M. Viest, TB:73:C-AC11-53
See Glenn P. Rentschler, TB:73:C-AC11-55
See S. Covarrubias, TB:73:C-AC11-63
See John A. Gilligan, TB:73:II-15-327
See David J. Fielding, ST1:Jan 73:1:9481
See Sakda Santathadaporn, ST3:Mar 73:491:9621
See Joseph S. Huang, Preprint No.1920, Apr 73
See Hugh L. Davidson, Preprint No.2070, Oct 73

Cheney, James A.
Dsc, SM9:Sept 72:974:9158, of "Low Velocity Projectile Penetration", SM12:Dec 71:1635:8592
Dsc, EM2:Apr 73:413:9636, of "Buckling of Shells: An Old Idea with a New Twist", EM3:June 72:531:8951

Cheng, Franklin Y.
Dynamic Matrix of Timoshenko Beams Columns, with Wu-Hsiung Tseng, ST3:Mar 73:527:9595
  Dsc: William A. Thornton and James W. Gorzynski, ST12:Dec 73:2502:10185

Cheng, Hon Kwan
Concrete Design Standards in Asia, State-of-Art Report 7, TB:73:III-20-117

Cheng, Shun
Accurate Fourth Order Equation for Circular Cylindrical Shells, EM3:June 72:641:8982
  Errata: EM2:Apr 73:418:9636
  TR:138:311

Cheong, Hin Fatt
See Hsieh W. Shen, HY11:Nov 73:1947:10138

Chern, Chingmiin
Experiments and Studies on Unstiffened Thin Web Girders, Preprint No.1932, Apr 73

Chern, J.-M.
Structural Design for Bounds on Dynamic Response, with J. F. Dafalias and John B. Martin, EM2:Apr 73:261:9646

Chernykh, G. G.
See O. F. Vasiliev, ISSF:Aug 72:161

Chery, Don L., Jr.
See Roger E. Smith, HY9:Sept 73:1337:9990

Chettiar, C. Ganapathy
See P. C. Varghese, ST7:July 73:1663:9826

Cheung, J. B.
See K. Thirumalai, RM14:73:527

Cheung, Yau Kai
See Sue K. Wang, TE1:Feb 72:37:8699
See Tara P. Khatua, EM5:Oct 72:1225:9233
See Sue K. Wang, TE2:May 73:255:9721

Chew, Norman B.
Designing to Prevent Liability Lawsuits, CE:Jan 72: 64
TR:138:44

Chhim, Tek Sreang
See John D. Mozer, Preprint No.1922, Apr 73

Chia, Chuen-Yuan
Large Deflection of Rectangular Orthotropic Plates, EM5:Oct 72:1285:9271
Errata: EM4:Aug 73:890:9894
TR:138:514

Chiang, Cheng H.
Dsc, EE5:Oct 73:756:10035, of "Residuals in Manufacture of Paper", EE1:Feb 73:1:9543

Chiang, Sie-Ling
Calibration of Watershed Wetness and Prediction of Flood Volume from Small Watersheds in Humid Region, HYB:Aug 73:371

Chiapetta, Richard L.
See John D. Rouse, SM12:Dec 73:1174:10184

Chicurel, Ricardo
See S. V. Kulkarni, EM3:June 73:537:9808

Chien, Jong-Song
Dsc, HY7:July 73:1191:9823, of "Kinematic Wave Nomograph for Times of Concentration", HY10: Oct 72:1765:9275

Chipman, Lester D.
Proper Grievance Handling Makes Unions Unnecessary, CE:Sept 73:95

Chisholm, W. Orville
See Hans J. Leutheusser, HY7:July 73:1027:9831

Chistiakov, E. A.
See Alexei A. Gvozdev, TB:73:III-23-537

Chiu, Arthur N.L.
Tower Response to Actual and Simulated Wind Forces, with George T. Taoka, ST9:Sept 73:1911: 10012
See George T. Taoka, Preprint No.1934, Apr 73

Chiu, Kao Ding
Stability of Orthotropic Stiffened Composite Plates, EM5:Oct 72:1253:9266
TR:138:508

Cho, David
See Lawrence G. Selna, WW1:Feb 72:15:8708

Cho, S. M.
Cavitation Characteristics of 18-Inch Butterfly Valve, with W. J. Carlson and M. J. Tessier, HYB:Aug 73: 141

Choi, Chang-Koon
See William C. Schnobrich, ST8:Aug 72:1885:9079

Choi, Yu-Leuk
Dsc, HY3:Mar 73:544:9580, of "Temperature Prediction in Stratified Reservoirs", HY4:Apr 72: 645:8839
Dsc, HY3:Mar 73:547:9580, of "Synthetic Storm Pattern and Run-off for Gauhati, India", HY5:May 72:845:8887

Chou, Fang-Hui
Three-Dimensional Vibrations of Orthotropic Cylinders, with Jan D. Achenbach, EM4:Aug 72: 813:9102
TR:138:362

Chow, P. Y.
See C. J. Garrison, WW3:Aug 72:375:9098

Chow, Ven Te
Hydrodynamic Modeling of Two-Dimensional Watershed Flow, with Arie Ben-Zvi, HY11:Nov 73: 2023:10172
See James S. Windsor, HY10:Oct 72:1827:9304

Chowdhury, Asadul H.
Multi-Story Reinforced Concrete Frame Models, with Richard N. White and Norman R. Scott, Preprint No.2002, Apr 73

Christensen, Lyle R.
See Terence J. McGhee, EE6:Dec 73:883:10205

Christensen, M.
See Zdenek P. Bazant, ST10:Oct 72:2264:9301

Christensen, Nephi A.
Aqueducts for the Least Cost Conveyance of Water, IR3:Sept 71:483:8381
Dsc: James K. White, IR2:June 72:334:8926
Errata; Chester C. Kisiel, HY9:Sept 72:1720:9156
Clo: IR4:Dec 72:604:9392
TR:138:46

Christian, John T.
Consolidation of a Layer Under a Strip Load, with Jan Willem Boehmer and Philippe P. Martin, SM7: July 72:693:9030
Dsc: John R. Booker, SM4:Apr 73:358:9639
Clo: SM10:Oct 73:888:10038
TR:138:374
Soil-Structure Interaction for Tall Buildings, State-of-Art Report 5, TB:73:Ia-11-967
See Anwar E.Z. Wissa, SM10:Oct 71:1393:8447
See W. David Carrier, III, TN: SM3:Mar 73:299: 9632

Christiano, Paul P.
See Lawrence A. Soltis, ST12:Dec 72:2647:9407

Christiansen, Henry N.
Computer Simulation of Distorted Structural Frameworks, Preprint No.2080, Oct 73

Christiansen, John V.
Cast in Place, Reinforced Concrete Systems. State-of-Art Report 2, TB:73:Ia-3-437

Christianson, Alden G.
See Bruce A. Tichenor, PO3:July 71:589:8250

Christoulas, Demetrious G.
Approximate Solution to Flow Problems Under Dams, SM11:Nov 71:1573:8528
Dsc: Boris S. Browzin and Larry A. White, SM12:Dec 72:1404:9394
Clo: SM6:June 73:473:9762
TR:138:84

Chryssafopoulos, Nicholas
See William W. Moore, SM3:Mar 72:243:8789

Chu, Chung-Sang
See Heinz Stefan, PO2:Oct 72:253:9241

Chu, Kuang-Han
Analysis of Horizontally Curved Box Girder Bridges, with Suresh G. Pinjarkar, ST10:Oct 71:2481:8453
Dsc: John E. Goldberg and Richard K. Keplar, ST4:Apr 72:945:8802; Adel Fam and Carl J. Turkstra, ST5:May 72:1212:8861; Alexander C. Scordelis and Christian Meyer, ST8:Aug 72:1878:9079; Alfio Seni, ST8:Aug 72:1880:9079
Clo: ST2:Feb 73:279:9525
TR:138:24
Approximate Fundamental Frequencies for Chimneys, with Junesun Park, TN: PO2:Nov 73:441:10115
Large Deflection Buckling of Space Frames, with Robert H. Rampetsreiter, ST12:Dec 72:2701:9455
Dsc: Negussie Tebedge, ST11:Nov 73:2318:10113; James F. Dickie, ST12:Dec 73:2497:10185
TR:138:589
Dsc, EM5:Oct 72:1313:9221, of "Buckling of Arbitrary Open Cylindrical Shells", EM1:Feb 72:177:8726

Chu, Lap-Yan
See Leon Ru-Liang Wang, ST5:May 72:1202:8861

Chu, Shih-Lung
See Max Zar, PO2:Oct 72:323:9256
See Yi-Kwei Wen, Preprint No.1958, Apr 73
See Andrew Morcos, PO2:Nov 73:281:10164
See M. P. Singh, SDNPF:Dec 73:263
See Yi-Kwei Wen, ST12:Dec 73:2409:10249

Chu, Vincent H.
See Hans J. Leutheusser, HY9:Sept 71:1269:8367

Chuaprasert, Manoon
Torsion of Nonhomogeneous Solid, with Mumtaz K. Kassir, EM4:Aug 73:703:9948

Chugh, Yoginder P.
Analytical Study of Pressurized Elliptical Cavities, with H. Reginald Hardy, Jr., RM14:73:339

Chung, Yong K.
Solution of Flow Under Sluice Gate, EM1:Feb 72:121:8744
TR:138:152

Chura, Thomas M.
Design Aid for Deflection Calculation for a Uniformly Loaded Flexural Member, CE:Feb 72:75
Errata: CE:Apr 72:65
TR:138:114

Churchill, Stuart W.
Dsc, SM12:Dec 73:1175:10184, of "Effect of Seepage Stream on Artificial Soil Freezing", SM3:Mar 73:267:9630

Ciesielski, Roman
Dynamic Influences on Foundation Calculations for Tower Shaped Structures, with Janus Kawecki, TB:73:Ia-11-999

Claiborne, Gaylord R.
Requirement for Fire Protection and Safety in Tall Buildings, State-of-Art Report 4, with Lucien Wahl, TB:73:Ib-8-541

Claire, Wm. H.
Esthetic Considerations in Urban General Planning, UP1:July 72:63:9042
TR:138:404

Clapp, James L.
See Gerald W. Johnson, SU1:May 71:27:8139
See James D. Gruendler, SU1:July 72:93:9053

Clark, Alan F.
See Vincent D. Arp, TE4:Nov 73:873:10163

Clark, Arthur W.
See Barry J. Vickery, ST1:Jan 72:1:8634

Clark, James
See Jerry B. Schneider, Preprint No.2040, July 73

Clark, James Gordon
Professional Recognition -- How?, PP2:Apr 72:169:8857
Dsc: Thomas DeS. Furman, PP2:Apr 72:173:8857; Robert B. Thorn, PP2:Apr 72:177:8857
TR:138:335

Clark, John W.
See Maurice L. Sharp, ST4:Apr 71:1021:8048

Clark, Joseph A.
Flow Visualization in Free Shear Layers, with Eric Markland, HY11:Nov 73:1897:10119

Clark, Paul W.
The Highway Engineer on Trial, CE:Sept 73:60

Clark, Robert A.
See Guy L. Curry, HY12:Dec 73:2353:10246

Clark, Robert M.
Basic Data for Solid Waste: A Pilot Study, with John M. Sweeten and Daniel G. Greathouse, SA6:Dec 72:897:9424
Dsc: Robert L. Theom, EE5:Oct 73:750:10035
TR:138:540
Cost of Residential Solid Waste Collection, with Betty L. Grupenhoff, George A. Garland and Albert J. Klee, SA5:Oct 71:563:8403
Dsc: Masaru Tanaka, SA2:Apr 72:466:8800; Lawrence J. Partridge, Jr., SA2:Apr 72:467:8800; Rufus H. Carter and Walton M. Youngblood, SA4:Aug 72:663:9077
Clo: EE2:Apr 73:155:9635
TR:138:34
Fleet Selection for Solid Waste Collection Systems, with Billy P. Helms, SA1:Feb 72:71:8720
TR:138:216
Measures of Efficiency in Solid Waste Collection, EE4:Aug 73:447:9916
See Billy P. Helms, SA4:Aug 71:443:8280

Clarke, Frederick J.
The Engineer's Role, PP2:Apr 72:163:8825
TR:138:264
Interdisciplinary Planning to Meet Environmental Needs, PP4:Oct 72:497:9262
TR:138:535

Clayton, A. J.
Windhoek Reclaiming Sewage for Drinking Water, with P. J. Pybus, CE:Sept 72:103
TR:138:430

Clayton, Terry L.
See Harold P. Guy, TN: HY9:Sept 73:1653:10024

Cleary, Robert W.
New Analytical Solutions for Dye Diffusion Equations, with Donald Dean Adrian, EE3:June 73:213:9770

Clever, Richard M.
Transient Flow to Finite Well in Unconfined Aquifer, with Ivan Catton and Richard L. Perrine, HY3:Mar 73:485:9611

Climenhaga, J. Jay
Moment-Rotation Curves for Locally Buckling Beams, with R. Paul Johnson, ST6:June 72:1239:8954
TR:138:290

Cline, Fred R.
Unique Flood Control Problems and Solutions, with Edward Koehm, Preprint No.1945, Apr 73

Cloud, Bruce B.
New Construction Equipment and Techniques, ASC73:Mar 73:181

Clough, Gerald W.
Finite Element Analyses of Retaining Wall Behavior, with James M. Duncan, SM12:Dec 71:1657:8583
Dsc: L. Canizo and C. Sagaseta, SM8:Aug 72:831:9078; Ian K. Lee and John R. Herington, SM9:Sept 72:973:9158
Clo: SM4:Apr 73:347:9639
TR:138:95
Performance of Tie-Back Support Systems, PES:73:III-259
Soil-Structure Interaction -- Reporter's Remarks, PES:73:III-247

Clough, Ray W.
Earthquake Loading and Response, Summary Report, TB:73:Ib-6-327

Clough, Richard H.
The Civil Engineer In Construction, CE:July 73:97
Dsc, PP1:Jan 72:93:8621, of "Professional Education: The Need for Creativity", PP1:Jan 72:85:8654
See Thomas L. Morin, CO1:Mar 72:137:8748

Cluff, C. Brent
See Keith R. Cooley, IR2:June 72:255:8953

Cluff, Lloyd S.
See James L. Sherard, Preprint No.1948, Apr 73

Clyde, Calvin G.
Optimal Allocation of Water Resources in Utah, with Alton B. King, HY10:Oct 73:1777:10088
See Trevor C. Hughes, HY11:Nov 73:2079:10131

Cobb, Guy William
Memoir of, TR:138:620

Codella, Frank L.
Architectural Concerns are People Concerns, Preprint No.2066, Oct 73

Codner, Gary P.
Log-Normal Streamflow Generation Model Reexamined, with Thomas A. McMahon, HY9:Sept 73:1421:10002

Coe, Jack J.
Ground Water Management, by the Committee on Ground Water, Manual and Report on Engineering Practice No. 40, 40:72:
TR:138:512
Seawater Intrusion Extraction Barrier, IR3:Sept 72:387:9171
TR:138:425
Wastewater Reclamation in Southern California, with Finley B. Laverty, IR3:Sept 72:419:9178
TR:138:450

Cofer, James R.
Orange County Water District's Water Factory 21, IR4:Dec 72:553:9405
TR:138:549

Cohen, Edward
Implications of the New ACI Building Code, CE:Aug 72:47
TR:138:365
Radar Building Can Withstand Nuclear Attack, with Edward B. Laing, CE:Oct 73:46
U.S.A. Structural Standards for Reinforced Concrete, State-of-Art Report 1, TB:73:III-20-27

Cohen, Jules
Television Signal Reflection from Tall Buildings, State-of-Art Report 10, TB:73:Ia-1-213

Cohn, M. A.
Unified Approach to the Theory of Plastic Structures, with Satyendra K. Ghosh and S. R. Parimi, EM5:Oct 72:1133:9246
Dsc: Giulio Ceradini and Carlo Gavarini, EM6:Dec 73:1299:10181
TR:138:466

Coker, George P.
General Aviation in Our Transportation System, ASC73:Mar 73:133

Colaco, Joseph P.
Concrete Floor Systems, State-of-Art Report 6, TB:73:III-21-237

Cole, Phillip L.
Environmental Design and Construction Response on Highway Relocation for a Mountain Reservoir (A Rock Duet), with Sydney Steinborn, Preprint No.1916, Jan 73

Coleman, Neil L.
See Joe C. Willis, HY3:Mar 72:489:8765

Collins, Harlan G.
See Cyrus M. Vaziri, IR1:Mar 73:1:9622

Collins, Harvey F.
Problems in Obtaining Adequate Sewage Disinfection, with Robert E. Selleck and George C. White, SA5:Oct 71:549:8430
Dsc: George E. Glover, SA4:Aug 72:671:9077
Clo: EE1:Feb 73:89:9521
TR:138:66
Sewage Chlorination Versus Toxicity -- A Dilemma?, with David G. Deaner, EE6:Dec 73:761:10190
Dsc, with Robert E. Selleck and George C. White, SA4:Aug 72:664:9077, of "Inactivation of Virus in Sewage", SA5:Oct 71:661:8419

Collins, James A.
Substation Over Old Mine Gets Firm Footing, CE:Dec 73:41

Collins, James D.
California Tackles Highway Noise, CE:Nov 73:56
Noise -- The Subtle Polluter, Preprint No.2005, Apr 73

Collins, Michael A.
Hele-Shaw Model of Long Island Aquifer System, with Lynn W. Gelhar and John L. Wilson, III, HY9:Sept 72:1701:9215
Errata: HY7:July 73:1189:9823
TR:138:489

Collins, S. Patrick
Dsc, CO1:July 73:217:9822, of "Vehicular Tunnels in Rock - Direction for Development", CO2:Sept 72:235:9173

Collins, Thomas J.
See James J. Powers, CE:Mar 73:66

Colonell, Joseph M.
Wave Refraction Analysis: Aid to Interpretation of Coastal Hydraulics, with Stewart C. Farrell and Victor Goldsmith, HYB:Aug 73:131

Colville, James
Large Displacement Analysis of Thin Plates, with Eric B. Becker and Richard W. Furlong, ST3:Mar 73:349:9593
Dsc: Anil K. Kar, ST11:Nov 73:2327:10113; Semih S. Tezcan, ST11:Nov 73:2327:10113

Tests of Curved Steel-Concrete Composite Beams, ST7:July 73:1555:9867

Committee on Bibliography
Tall Buildings: Computerized Bibliography, TB:73:C-AC10-47
Tall Buildings: Preliminary Bibliography, TB:73:C-AC10-41

Comninellis, E.
Ludington Pumped Storage Project, PO1:May 73:069:9696

Conklin, Gerard T.
See Thomas R. Camp, SA6:Dec 71:903:8605

Conlin, Walter F., Jr.
Economics of High-Rise Buildings, State-of-Art Report 4B, TB:73:Ia-1-119

Connolly, Joseph P.
Dsc, CE:Mar 73:51, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE:Aug 72:55

Connor, Desmond M.
Citizen Inputs to Public Works Projects, Preprint No.2069, Oct 73

Content, Charles S.
See Harris H. Burke, SM10:Oct 72:1033:9268

Contini, Edgardo
Tall Buildings: Urban Planning Factors, Preprint No.2066, Oct 73

Conway, Richard A.
See Kenneth S. Price, EE3:June 73:283:9797

Cook, Dennis C.
Dsc, CE:Oct 72:63, on The Challenge to Civil Engineering, CE:July 72:66

Cook, Robert D.
Some Elements for Analysis of Plate Bending, EM6:Dec 72:1453:9447
  TR:138:590

Cooley, Keith R.
Evaporation Reduction with Reflective Covers, with Lloyd E. Myers, IR3:Sept 73:353:9982
Reducing Pond Evaporation with Perlite Ore, with C. Brent Cluff, IR2:June 72:255:8953
  TR:138:305

Cooper, Norman L.
Dsc, CE:Aug 72:46, on An American Engineer in Israel, CE:June 72:63

Cooper, Peter B.
Tests on Beams with Reinforced Web Openings, with Robert R. Snell, ST3:Mar 72:611:8791
  Dsc: Richard G. Redwood, ST9:Sept 72:2129:9159
  Clo: ST3:Mar 73:580:9583
  TR:138:189

Cooper, Pricilla C.
See David D. Woodbridge, Preprint No.2085, Oct 73

Cooper, Richard H.
Critical Review of Sediment Transport Experiments, with Allan W. Peterson and Thomas Blench, HY5:May 72:827:8873
  Dsc: Dale I. Bray, HY12:Dec 72:2247:9391
  Clo: HY7:July 73:1161:9823
  TR:138:247

Cooper, Sol E.
Minority Programs for ASCE, with Austin B. Milhollin and Benito A. Sinclair, PP3:July 72:431:9075
  TR:138:485

Copp, Howard D.
Pullman Tackles its Flooding Problems, CE:Aug 72:42
  Dsc: John A. Owen, CE:Nov 72:56
  TR:138:360

Cordella, Frank L.
See Arthur James Mc Arthur, TB:73:Ia-1-199

Cording, Edward J.
See K. R. Chapman, PES:73:III-271

Cornell, C. Allin
Structural Safety and Probabilistic Methods, Theme Report, TB:73:Ib-10-911
See Ross B. Corotis, EM2:Apr 72:401:8816
See Alfredo H.-S. Ang, Preprint No.2023, Apr 73
See Jong-Cherng Peir, ST5:May 73:903:9747

Cornfield, G. M.
Deep Foundations - Piles and Caissons, State-of-Art Report 4A, TB:73:Ia-11-925

Cornish, Alan
See Syed R. Qasim, EE5:Oct 73:717:10098

Corotis, Ross B.
First Passage of Nonstationary Random Processes, with Erik H. Vanmarcke and C. Allin Cornell, EM2:Apr 72:401:8816
  TR:138:205
Statistical Analysis of Live Load in Column Design, ST8:Aug 72:1803:9123
  TR:138:384

Corrado, Joseph A.
Failure Tests of Rectangular Model Steel Box Girders, with Ben T. Yen, ST7:July 73:1439:9854

Cort, Stewart S.
Keynote Address at Tall Buildings Conference, TB:73:C-33

Cortright, Clifford J.
A New Look at California Dams and Earthquakes, Preprint No.2011, Apr 73

Cosandey, Maurice
Welcoming Remarks at the Tall Buildings Conference, TB:73:C-29

Cost, Thomas L.
Analysis of Coupled Heat and Moisture Diffusion By Finite Elements, with T. D. Loftin, Preprint No.1954, Apr 73

Costantino, Carl J.
See Joseph H. Heifitz, EM6:Dec 72:1511:9451

Costello, George H.
See James W. Phillips, EM2:Apr 73:331:9676

Coull, Alexander
Model Investigations of Shear Wall Structures, with A. W. Irwin, ST6:June 72:1223:8936
  Dsc: Sebastine Selvaraj, ST7:July 73:1650:9826
  TR:138:284
Torsion Analysis of Symmetric Building Structures, with Bryan Stafford Smith, TN: ST1:Jan 73:229:9464
Dsc, ST11:Nov 73:2326:10113, of "Approximate Analysis of Tall Wall-Frame Structures", ST2:Feb 73:199:9550
See Bryan Stafford Smith, TB:73:III-21-157

Coulter, James B.
See Frank A. Butrico, SA1:Feb 72:247:8739

Coursey, Greer E.
New Shape in Shore Protection, CE:Dec 73:68

Covarrubias, S.
Current Questions, Problems, and Research Needs, State-of-Art Report 2, with A. Chen, S. Parsanejad and Wai F. Chen, TB:73:C-AC11-63

Cowan, Henry J.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-522
Environmental Systems, Summary Report, TB:73:Ia-1-289

Cowan, John
Dsc, PP1:Jan 73:131:9460, of "The Continuing Challenge of Engineering Education", PP3:July 72:351:9037

Cox, William E.
See William R. Walker, Preprint No.2102, Oct 73

Coxon, Roy E.
Stoplog Closure - Model Prototype Correlation, with Stig V. Angelin and David G. Wardle, HY2:Feb 73:301:9562

Coykendall, Richard
See Robert Horonjeff, ASC73:Mar 73:1

Coyle, Harry M.
See James D. Murff, SM5:May 73:375:9737

Craddock, Charles D.
Upstream Drainage Increases Spillway Stability, Preprint No.1902, Jan 73

Crandall, Keith C.
ASCE and Graduate Students: Faculty Advisors Opinion, Preprint No.1972, Apr 73
ASCE and Graduate Students: Faculty Advisor's Opinion, PP3:July 73:307:9882

Crandall, Lee W.
Dsc, CE:June 72:73, on Crane Safety, CE:Feb 72:61

Craven, Terry N.
See T. Leslie Youd, SM12:Dec 72:1423:9394

Crawford, Carl B.
Shallow Foundations -- Panel Presentation, PES:73:III-165

Crawford, John E.
Structural Animation, Preprint No.2087, Oct 73

Cremer, Allan C.
See Harry Ekizian, Preprint No.2105, Oct 73

Crenshaw, Richard
An Approach to Performance Specifications for Public Buildings, with Clifford Thomas, Robert Ramsey and Dan Morgenroth, TB:73:Ia-4-797

Crews, James E.
The Education of an Engineer (A Continuing Story), with Charles C. McCloskey, III, PP4:Oct 72:543:9267
TR:138:544

Cribbins, Paul D.
See Arun Chatterjee, TE2:May 72:209:8885

Crickmore, Maurice J.
Tracer Tests of Eddy Diffusion in Field and Model, HY10:Oct 72:1737:9285
Errata: HY9:Sept 73:1642:9961
TR:138:509

Criminale, W. O., Jr.
On Breaking of Internal Gravity Waves, ISSF:Aug 72:175

Crist, Robert A.
An Electro-Optical Deflection Measuring Device, with Richard Anthony Marshall and Harold I. Laursen, Preprint No.2031, Apr 73

Croneberger, Don K.
See Chang Chen, PO2:Nov 73:429:10111

Cross, Ralph H.
Oil Boom for Emergency Harbor Use, with John J. Cunningham, WW1:Feb 73:27:9531
Oil Booms in Tidal Currents, with David P. Hoult, WW1:Feb 72:25:8719
TR:138:192
Wave Transmission by Overtopping, with Charles K. Sollitt, WW3:Aug 72:295:9137
TR:138:457

Crosthwaite, Charles D.
Dsc, PP4:Oct 72:729:9224, of "Considering Social Value in Engineering Projects", PP1:Jan 72:43:8655
Dsc, PP4:Oct 72:729:9224, of "Ethical and Social Responsibility in the Planning and Design of Engineering Projects", PP1:Jan 72:33:8657
Dsc, PP4:Oct 72:729:9224, of "Antidote for Environmental Hysteria", PP1:Jan 72:1:8663
Dsc, PP4:Oct 72:729:9224, of "Integrity and the Ecological Crisis", PP1:Jan 72:25:8677

Crouch, S. L.
See A. M. Starfield, RM14:73:421
See M. P. Hardy, RM14:73:749

Crump, David
Are Civil Engineers Socially Responsible?, CE:Jan 72:59
TR:138:35

Csallner, Klausotto
See Friedrich K. Hartung, HY1:Jan 72:278:8620

Cullingford, Graham
See David Scott, CO1:July 73:81:9832

Culp, Russell L.
No Innovation in Wastewater Treatment, CE:July 72:46
TR:138:327
Dsc, SA1:Feb 72:273:8682, of "Implications of Nitrogenous BOD in Treatment Plant Design", SA5:Oct 71:709:8469

Culver, Charles G.
Bending Behavior of Cylindrical Web Panels, with Clive L. Dym and Darryl K. Brogan, ST10:Oct 72:2291:9302
TR:138:507
Buckling of Steel Columns at Elevated Temperatures, with Vinod Aggarwal and Paul J. Ossenbruggen, ST4:Apr 73:715:9682
Steel Column Buckling Under Thermal Gradients, ST8:Aug 72:1853:9150
TR:138:414
Web Slenderness Requirements for Curved Girders, with Clive L. Dym and Tasnim Uddin, ST3:Mar 73:417:9620
See Paul J. Ossenbruggen, ST4:Apr 73:727:9681
See Nicholas Mariani, ST4:Apr 73:757:9684

Culvern, Frederick E.
Some Problems of Pipeline Route Selection, with George H. Watson and J. E. Wilson, Preprint No.2057, July 73

Cunningham, John A.
Dsc, "Precedence Networks For Project Planning And Control", CE:Dec 73:24
Rate of Work Method: Simplified Project Control, with Edward P. Yarmowich, CE:Nov 73:62

Cunningham, John J.
See Ralph H. Cross, WW1:Feb 73:27:9531

Cunningham, K. D.
Steel Construction, State-of-Art Report 5A, TB:73:Ia-4-753

Cunningham, Paul R.
See Edward A. Cecil, PO1:June 72:11:8967

Cunningham, Pinkney E.
Memoir of, TR:138:621

Cunningham, R. O.
Construction of the Fremont Bridge, with Hacik Erzurumlu and Richard A. Leber, Preprint No.1968, Apr 73

Cunny, Robert W.
Vibratory In Situ and Laboratory Soil Moduli Compared, with Zelma B. Fry, SM12:Dec 73:1055:10219

Curran, D. R.
See D. A. Shockey, RM14:73:709

Curry, Guy L.
Chance-Constrained Model of System of Reservoirs, with James C. Helm and Robert A. Clark, HY12:Dec 73:2353:10246

Custer, John C.
Dsc, CE:Aug 72:59, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Cypher, Robert S.
Cypher Is New CE Ad Manager, CE:Dec 73:80

Cypra, Kenneth J.
Homeowner Decision Making in Public Water Supply, UP1:Mar 73:97:9597

Cyr, Norman A.
Finite Element Thermoelastoplastic Analysis, with Roger D. Teter and Brian B. Stocks, ST7:July 72:1585:9068
  Dsc: Robert G. Vos, ST5:May 73:960:9693
  Clo: ST11:Nov 73:2310:10113
  TR:138:372

da Cunha, L. Veiga
Dsc, HY9:Sept 73:1637:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Dafalias, J. F.
See J.-M. Chern, EM2:Apr 73:261:9646

Da Gama, C. D.
See F. Mello Mendes, RM14:73:107

Dagan, Gedeon
See Michael Stiassnie, WW2:May 72:209:8869

Dague, Richard R.
See Gene F. Parkin, SA6:Dec 72:833:9403

Dahl, H. Douglas
Rock Mechanics Education -- A Panel Discussion, with K. E. Gray and Leonard Obert, RM14:73:747

Dajani, Jarir S.
Economic Guidelines for Public Utilities Planning, with Robert S. Gemmell, Preprint No.1898, Jan 73
Economic Guidelines for Public Utilities Planning, with Robert S. Gemmell, UP2:Sept 73:171:9977
Optimal Design of Urban Wastewater Collection Networks, with Robert S. Gemmell and Edward K. Morlok, SA6:Dec 72:853:9414
  Dsc: Edward S. Webber, EE4:Aug 73:564:9893
  TR:138:534

Dalgliesh, W. A.
Research Review -- North and South America, State-of-Art Report 3, with R. D. Marshall, TB:73:Ib-7-383

Dallaire, Eugene E.
Computer-Driven Plotters: Will They Make the Draftsman Extinct?, CE:Feb 73:31
  Dsc: Morton B. Lipetz, CE:June 73:22
Dallas-Ft. Worth: World's Largest, Best Planned Airport, CE:July 73:53
  Errata: CE:Nov 73:39
Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43
  Dsc: H. A. Lindberg, CE:Dec 73:22; Elmars J. Zemitis, CE:Dec 73:22
  Errata: CE:Sept 73:29
Guidelines for Selecting a Programmable Calculator, CE:Mar 72:46
  TR:138:129
Halting Deck Deterioration on Existing Bridges, CE:Oct 73:81
The Programmable Calculator: A Place In Civil Engineering, CE:Feb 72:70
  TR:138:106
See Norman J. Fulco, CE:May 73:54

Dalton, Charles
See Robert A. Helfinstine, EM2:Apr 72:357:8804

Dalton, Dalton, Little & Newport
State Office Building, TB:73:C-P-434

Dandekar, Mohan M.
Dsc, HY12:Dec 71:2107:8552, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994

Daniels, J. Hartley
Plastic Subassemblage Analysis for Unbraced Frames, with Le-Wu Lu, ST8:Aug 72:1769:9148
  TR:138:409

Dannenbaum, James D.
236 Housing - An Opportunity for Community Involvement, PP1:Jan 73:107:9507

D'Appolonia, David J.
Initial Settlement of Structures on Clay, with Harry G. Poulos and Charles C. Ladd, SM10:Oct 71:1359:8438
  Dsc: Max L. Calhoon, SM3:Mar 72:306:8751; Kalidas Banerjee, SM9:Sept 72:961:9158
  Clo: SM4:Apr 73:343:9639
  TR:138:43

Darayanani, Sital
Heating, Ventilating & Air Conditioning (HVAC), State-of-Art Report 2, TB:73:Ia-2-319

Das, Bishnu Prasad
Bed Scour at End-Dump Channel Constrictions, HY12:Dec 73:2273:10228
Stability of Rockfill in End-Dump River Closures, HY11:Nov 72:1947:9381
  TR:138:567
Dsc, CO1:July 73:210:9822, of "Theories of Closure of Rockfill Dams", CO2:Nov 71:313:8542

Das, Madan M.
Waves Generated by Horizontal Motion of a Wall, with Robert L. Wiegel, WW1:Feb 72:49:8707
  TR:138:137

Das, Y. C.
See P. Dayaratnam, TB:73:II-15-303

Daschner, F.
See Emil Grasser, TB:73:III-21-290

da Silveira, Icarahy
Dsc, SM12:Dec 72:1416:9394, of "Consolidation of Clay Layer in Two Dimensions", SM1:Jan 72:79:8674
Dsc, SM11:Nov 73:1019:10112, of "Analysis of Ultimate Loads of Shallow Foundations", SM1:Jan 73:45:9480

Datta, V. K.
Analysis and Design of Sacrificial Shield Wall, SDNPF:Dec 73:291

Dattatri, Jade
Waves Off Manalore Harbor - West Coast of India, WW1:Feb 73:39:9532

Dsc, WW3:Aug 72:421:9081, of "Laboratory Study of Lift Forces on Circular Piles", WW4:Nov 71:595:8495
Dsc, WW1:Feb 73:134:9527, of "Effect of Irregular Wave Trains on Rubble-Mound Breakwaters", WW1:Feb 72:1:8693
Dsc, HY8:Aug 73:1282:9895, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295

Davenport, Alan G.
Wind Loading and Wind Effects, Theme Report, TB:73:Ib-7-335

Davidson, Hugh L.
Elastic-Plastic, Large Deformation Response of Soil to Footing Loads, with Wai F. Chen, Preprint No.2070, Oct 73
See Wai F. Chen, SM6:June 73:433:9816

Davidson, Luther W.
See Hon-Yim Ko, SM1:Jan 73:1:9496

Davies, Clarence W.E.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Davies, E. M.
New Criterion for Resource Scheduling, TE4:Nov 73:741:10118

Davies, G.
See R. S. Lamb, ST3:Mar 73:583:9583

Davies, J. M.
See E. R. Bryan, TB:73:II-17-643

Davies, William E.
Buffalo Creek Dam Disaster: Why It Happened, CE:July 73:69

Davinroy, Thomas B.
Density Altitude Variations and Runway Length, TE4:Nov 71:591:8512
Errata: TE1:Feb 73:9526
TR:137:977

Davis, Charles S.
See Wei-Wen Yu, ST10:Oct 73:2061:10059

Davis, Darryl W.
Dsc, HY9:Sept 72:1730:9156, of "Two-Distribution Method for Flood Frequency Analysis", HY1:Jan 72:29:8639

Davis, Edward H.
See Anwar E.Z. Wissa, SM10:Oct 71:1393:8447

Davis, Ernst M.
Bacterial Dieoff in Ponds, with Earnest F. Gloyna, SA1:Feb 72:59:8714
Dsc: Thiruvenkatachari Viraraghavan, SA5:Oct 72:801:9225; Shundar Lin, SA6:Dec 72:1049:9393
Clo: EE3:June 73:379:9758
TR:138:193

Davis, Fred J.
See Malcolm H. Logan, PES:73:III-315

Davis, Harry H.
See Dilip S. Mehta, SA3:June 72:471:8938

Davis, John J.
Generic Feed Forward Control of Activated Sludge, with Richard I. Kermode and Robert W.J. Brett, EE3:June 73:301:9803

Davis, Ray R.
Dsc, CE:July 72:77, on Engineering and Today's Social Problems, CE:Mar 72:64

Davis, Raymond Eugene
Concrete Arch Culvert Behavior-Phase 2, with Alfred E. Bacher, ST11:Nov 72:2329:9325
TR:138:521
Model and Prototype Studies of Box Girder Bridge, with Charles F. Scheffey, Gary A. Castleton and Evan E. Evans, ST1:Jan 72:165:8631
TR:138:70

Davis, Robert
Use of Trees as Bench Marks in Expansive Clays, with Richard Tucker, TN: SU1:Sept 73:149:10017

Davis, Sterling
See Sterling J. Richards, IR4:Dec 73:457:10243

Dawson, Ralph G.
Post-Buckling of Geometrically Imperfect Plates, with Alastair C. Walker, ST1:Jan 72:75:8630
TR:138:67

Dawson, Thomas H.
See Furman W. Barton, TN: EM3:June 73:9765

Day, Harold J.
See George E. Kanaan, TN: CE2:Sept 73:265:9969

Dayaratnam, P.
Stability and Drift Problem, State-of-Art Report 3, with Y. C. Das, TB:73:II-15-303

Dayton, David J.
See Bernard B. Gordon, Preprint No.2025, Apr 73

De, Prakas Kumar
Dsc, SM4:Apr 73:363:9639, of "Analysis of Waco Dam Slide", SM9:Sept 72:869:9210

Dean, Donald L.
Field Solutions for Shear Grids, ST12:Dec 71:2845:8594
Errata: ST2:Feb 73:279:9525
TR:137:969
See J. C. Smith, ST9:Sept 73:1837:10031

Dean, Frederick C.
Dsc, with Samuel J. Harbo, Jr., EE3:June 73:385:9758, of "Environmental Planning and Ecological Possibilities", SA3:June 72:579:8994

Dean, R. Gordon
Elastic Design for Earthquake Motions, State-of-Art Report 5, TB:73:II-14-215

Deaner, David G.
See Harvey F. Collins, EE6:Dec 73:761:10190

Dearinger, John A.
Evaluating Recreational Potential of Small Streams, UP1:July 72:85:9046
TR:138:478

Deb, Arun K.
Least Cost Design of Water Main System in Series, TN: EE3:June 73:405:9764
Dsc, EE2:Apr 73:159:9635, of "Filtrability Study on Secondary Effluent Filtration", SA3:June 72:505:8965

De Beer, E.
Foundation Design, Summary Report, TB:73:Ia-11-1026

DeBenedittis, Charles A.
Contracting Practices, State-of-Art Report 1, TB:73:Ia-4-669

Debler, Walter
The Towing of Bodies in a Stratified Fluid, ISSF:Aug 72:193

DeCicco, Paul R.
Multiphase Health Screening Facility Design, PP4: Oct 72:707:9299
TR:138:593

Decker, Rey S.
See James L. Sherard, PES:72:I-589
See James L. Sherard, PES:72:I-653

DeDonato, Osvaldo
Dsc, with Giulio Maier, EM4:Aug 72:998:9125, of "Analysis of Structures by Quadratic Programming", EM5:Oct 71:1495:8431

De Fries, Armin
See L. Agustin Mazzeo, ST6:June 72:1255:8937

DeGeare, Truett V.
Empirical Analysis of Commercial Solid Waste Generation, with Jerry E. Ongerth, SA6:Dec 71:843:8589
Dsc: Masaru Tanaka, SA4:Aug 72:675:9077
TR:138:112

Degenkolb, Henry J.
Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division, ST9:Sept 72:1913:9182
Dsc: Kalyan K. Sarkar, ST7:July 73:1667:9826
TR:138:433
See Robert T. Lawson, Preprint No.2007, Apr 73

Degenkolb, John G.
ICBO-BOCA Fire Provisions, TB:73:Ib-8-733

Degler, Stanley E.
Dsc, CE:May 72:48, on Environmental Litigation: Lessons From the Courts, CE:Jan 72:55

de Graft-Johnson, J. W.S.
Lateritic Gravel Evaluation For Road Construction, with Harbhajan S. Bhatia and A. A. Hammond, SM11:Nov 72:1245:9375
Dsc: Raymond J. Frost, SM9:Sept 73:723:9963
TR:138:545

de Jong, Remy R.L.
The Environment and the Law, Preprint No.2071, Oct 73

Delaney, John E.
Bactericidal Properties of Chlorsulfamates, with J. Carrell Morris, SA1:Feb 72:23:8718
TR:138:209

Delesques, R.
Factor of Safety of Connections, TB:73:II-19-890

Delleur, Jacques W.
See Ramachandra A. Rao, HY6:June 72:1082:8925
See Ramachandra A. Rao, HY7:July 72:1205:9024
See Ismail T. Kisisel, EM1:Feb 73:31:9535

Delong, A. G.
Dsc, CE:June 73:24, on Friction Overlay Improves Runway Skid Resistance, CE:Mar 73:45

De Michele, Eugene
Estimation of Estuarine Marsh Productivity, TN: EE3:June 73:397:9764

Dendy, Bill B.
See Gerald T. Orlob, HY4:Apr 73:573:9660

de Neufville, Richard
Airport Access Cost-Effectiveness Analysis, with Edward Mierzejewski, TE3:Aug 72:663:9141
TR:138:428
Consolidation for Urban Goods Movements: Air Cargo on the Ground as a Case Study, with Nigel H.M. Wilson, Preprint No.2061, July 73
Systems Analysis of Water Distribution Networks, with John C. Schaake, Jr. and Joseph H. Stafford, SA6:Dec 71:825:8575
Dsc: Vincent G. Terenzio, Martin Hauptman and LeRoy Ericson, SA5:Oct 72:789:9225; Lucien Duckstein and Chester C. Kisiel, SA5:Oct 72:791:9225; Raphael Hurwitz, SA5:Oct 72:793:9225; John H. Brindley, SA5:Oct 72:795:9225
Clo: EE3:June 73:374:9758
TR:138:105
See Walter Gelerman, TE3:Aug 73:537:9951
See John F. Hoffmeister, III, WW3:Aug 73:293:9926

Dengo, Miguel P.
Dsc, CE:Aug 72:46, on Esthetics in Highway Design, CE:Apr 72:47

de Paiva, H. A. Rawdon
See E. Ramzy F. Zaghlool, ST3:Mar 73:551:9616

De Pineres, Oscar G.
Analysis of Internal-Pressure-Relieving R C Structures by the Proposed ACI(359)-ASME Code, SDNPF:Dec 73:375
Dsc, EM6:Dec 73:1304:10181, of "Elastic-Plastic Analysis by Quadratic Programming", EM6:Dec 72:1547:9435

Derrick, Clarence Joseph
Memoir of, TR:138:622

de Rubertis, Kim
Dsc, Ecology and International Development, CE:Jan 73:27
In Defense of Dubos and Ellul, CE:Dec 72:51
TR:138:534

Desai, Chandrakant S.
Approximate Solution for Unconfined Seepage, IR1: Mar 73:71:9607
Seepage Analysis of Earth Banks Under Drawdown, SM11:Nov 72:1143:9334
TR:138:511

Desai, Mashesh D.
Dsc, SM5:May 73:410:9692, of ""Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM7:July 72:749:9070

DeSalvo, Joseph M.
Dsc, Driller Pier Foundations, CE:Mar 73:40
The Making of a "Pro" -- or, Motivating Students Towards Professional Thinking. The Practitioner's Viewpoint, Preprint No.2084, Oct 73

Deschapelles, Bernardo J.
Half Frame Method, TB:73:II-16-591
Methods of Analysis, TB:73:III-21-309
Three-Dimensional Analysis, TB:73:III-24-725
Dsc, ST10:Oct 72:2323:9227, of "Analysis of Three-Dimensional Structures", ST1:Jan 72:233:8643

De Simone, S. V.
Distribution of Wind Loads to Soils, State-of-Art Report 2, TB:73:Ia-11-881

Desimone, Vincent R.
Four-Day Week and Transportation, TE3:Aug 72:705:9116
Dsc: Jeffrey M. Zupan, TE2:May 73:427:9691; Fred P. Wagner, Jr., TE3:Aug 73:682:9896
TR:138:361
Planning Criteria for Bikeways, TE3:Aug 73:609:9928

Despeyroux, J.
Commentary on Structural Standards, Theme Report, TB:73:III-20-7

De Vries, A. H.
See C. B. Vreugdenhil, HY9:Sept 72:1723:9156

DeVries, Johannes J.
The Civil Engineer In Research, CE:Jan 73:92

Dewar, Edgar J.
Fixed Resin Bed Chlorination of Water, with Morris Wayman, SA1:Feb 72:11:8703
TR:138:172

Dewey, Haywood G., Jr.
Start-Up Performance, Hyatt-Thermalito Power Complex, with Robert W. Ehrhart and William H. Young, Preprint No.1999, Apr 73
Start-Up Performance, Hyatt-Thermalito Power Complex, with Robert W. Ehrhart and William H. Young, PO2:Nov 73:405:10169

Dezfulian, Houshang
See H. Bolton Seed, SM8:Aug 72:787:9108

Dhar, C. L.
See Subhash C. Anand, ST1:Jan 73:145:9513

Diaper, Ernest W.J.
Dsc, EE1:Feb 73:102:9521, of "Research Needs for Advanced Waste Treatment", SA3:June 72:515:8956

Dick, Richard I.
See Byong S. Shin, SA5:Oct 72:799:9225

Dicke, D.
Effect of Foundation Rotation, TB:73:III-23-621

Dicker, Daniel
Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61
Dsc: William F. Hoey, CE:Jan 72:62; Gerald K. Gillan, CE:Apr 72:62; John A. Bennett, CE:Apr 72:62; Daniel Dicker, CE:Oct 72:63; Carl H. Gronquist, CE:Jan 73:52
Clo: CE:Apr 72:62
TR:137:472
Dsc, CE:Oct 72:63, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Dickey, Walter L.
Structural Design of Masonry Buildings, TB:73:III-27-1057

Dickie, James F.
Shallow Circular Vaults, with Peter Broughton, EM1:Feb 73:1:9520
Dsc, with Peter Broughton, EM5:Oct 72:1308:9221, of "Nonlinear Buckling Analysis of Sandwich Arches", EM5:Oct 71:1397:8417
Dsc, ST12:Dec 73:2497:10185, of "Large Deflection Buckling of Space Frames", ST12:Dec 72:2701:9455

Dietrich, Rudy J.
Seismic Ground Response of Dumbarton Bridge, Preprint No.1998, Apr 73

Di Genova, Egidio O.
Memoir of, TR:138:626

DiGiano, Francis A.
Sorption Kinetics in Finite-Bath Systems, with Walter J. Weber, Jr., SA6:Dec 72:1021:9430
TR:138:546

Di Gioia, Anthony M.
Environmental Aspects of Fossil Fuel Power Plant Solid Waste Disposal, with James E. Niece and Robert P. Hayden, Preprint No.2116, Oct 73
Fly Ash as Structural Fill, with William L. Nuzzo, PO1:June 72:77:8980
TR:138:175

Dikkers, Robert D.
Masonry Structures, Summary Report, TB:73:III-27-1103
See Felix Y. Yokel, ST5:May 71:1593:8143

DiMaggio, Frank L.
See Bedros Bedrosian, EM3:June 72:731:8998

Dimopoulos S.A., A. Albertis-TH.
Athens Tower, TB:73:C-P-502

Dinoy, Antonio A.
See Anat Arbhabhirama, HY6:June 73:901:9784

Dismuke, T. D.
Excavations and Deep Foundations, TB:73:Ia-11-1014

Disque, Robert O.
Mass Produced Steel Systems, State-of-Art Report 4, TB:73:Ia-3-477

DiToro, Dominic M.
See James A. Mueller, EE3:June 73:269:9792

Dixon, Robert M.
See Charles B. England, HY9:Sept 73:1630:9961

Dixon, Schaefer J.
Development and Implementation of Salary Guidelines, with Richard G. Tait, Preprint No.1980, Apr 73
Development and Implementation of Salary Guidelines, with Richard G. Tait, PP3:July 73:393:9887
A Liquefaction Case History, with Jack W. Burke, Preprint No.1977, Apr 73
Liquefaction Case History, with Jack W. Burke, SM11:Nov 73:921:10133

Dobbs, Elwood D.
Salary Evaluation for Young Professionals, PP4:Oct 73:421:10083

Dobry, Ricardo
See H. Bolton Seed, SM8:Aug 72:787:9108
See Jose M. Roesset, ST3:Mar 73:399:9603

Dodge, Eldon R.
Estimation Floods Small Drainage Areas in Montana, HYB:Aug 73:395

Dodge, Eric T.
See Harry Ekizian, Preprint No.2105, Oct 73

Dodson, Roy E.
Cleanup of San Diego Bay, CE:Mar 72:62
TR:138:142

Doering, Eugene J.
Pumping an Artesian Source for Water Table Control, with Leo C. Benz, IR2:June 72:275:8964
TR:138:344

Dokainish, Mohammed Ali
Transverse Beam Vibration Nonlinear Constraint, with Rajnish Kumar, EM6:Dec 72:1381:9431
TR:138:556
See James N. Siddall, ST6:June 73:1043:9772

Dolan, Charles W.
See Robert F. Mast, CE:Mar 72:48

Domanov, V. N.
See I. K. Nikitin, ISSF:Aug 72:635

Dominguez, Richard F.
Dynamic Analysis of Cable Systems, with Charles E. Smith, ST8:Aug 72:1817:9127
Dsc: G. J. O'Hara and Richard A. Skop, ST3:Mar 73:590:9583
TR:138:388
Dsc, WW1:Feb 72:118:8686, of "Two-Point Mooring System for Spar Buoy", WW2:May 71:295:8115

Donachie, Roger P.
Dsc, HY12:Dec 72:2244:9391, of "Computer Analysis of Water Distribution Systems: Part II--Numerical Solution", HY3:Mar 72:447:8782

Donath, F. A.
Experimental Study of Frictional Properties of Faults, with L. S. Fruth, Jr. and W. A. Olsson, RM14:73:189

Donovan, Neville C.
Site Response Procedures for Major Buildings, Preprint No.2027, Apr 73

Donovan, Thomas K.
See Vincent P. Olivieri, SA5:Oct 71:661:8419

Doolan, T. F.
See Somasundaram Valliappan, ST4:Apr 72:885:8845

Dornhelm, Richard
Velocity and Temperature in Buoyant Jet, with Manuel Nouel and Robert L. Wiegel, PO1:June 72:29:8975
  TR:138:148

Dorsey, Lynn D.
Marketing Professional Engineering Services, CE:Oct 73:99

Dotreppe, Jean-Claude
See Giulio Maier, TN: EM4:Aug 73:897:9898

Doty, Coy W.
Pump Drainage in Carolina Bays, IR4:Dec 73:465:10244

Douglas, Gabrielle
Strain Energy Build-Up in Fatigue Cycling, with David J. McDougall, RM14:73:121

Douglass, Matthew McC.
See Benjamin E. Lazar, ST8:Aug 72:1725:9122

Downey, Jack D.
Why Regional Airports, ASC73:Mar 73:153

Downey, Lloyd A.
Water-Yield Relations for Nonforage Crops, IR1:Mar 72:107:8772
  TR:138:157

Doyle, James M.
See Max Zar, PO2:Oct 72:323:9256

Drenick, Rudolf F.
Aseismic Design by Way of Critical Excitation, EM4:Aug 73:649:9950

Drew, Donald R.
Capacity-Feedback Relationship for Port of Bangkok, with Pakorn Adulbhan, Wai Ling Woo and Manu Juaseekoon, WW3:Aug 72:393:9131
  TR:138:441

Drewry, William A.
Dsc, CE:Sept 73:29, on Muskegon Sprays Sewage Effluents on Land, CE:May 73:49

Dreyfus, Daniel A.
Competing Values in Water Development -- The Congressional Viewpoint, Preprint No.1894, Jan 73
Competing Values in Water Development, HY9:Sept 73:1599:10025
Needed: A National Land Use Policy, CE:May 72:52
  Dsc: William S. Barrett, CE:Aug 72:64
  TR:138:245

Driscoll, George C., Jr.
Plastic Analysis and Design, Summary Report, TB:73:II-15-399
See E. Ozer, TB:73:C-AC14-93

Drnevich, Vincent P.
Undrained Cyclic Shear of Saturated Sand, SM8:Aug 72:807:9134
  TR:138:431
See Bobby O. Hardin, SM6:June 72:603:8977
See Bobby O. Hardin, SM7:July 72:667:9006

Drobny, Neil L.
See Syed R. Qasim, EE5:Oct 73:717:10098

Drucker, Daniel C.
See Giulio Maier, EM4:Aug 73:819:9914

Drummond, Glenn R.
See Danny L. King, Preprint No.1913, Jan 73

Drynan, W. Ronald
See Bruce E. Jank, EE3:June 73:187:9769

Dubas, Pierre
Interaction of Structural Elements with Cladding, State-of-Art Report 5, TB:73:II-17-675

Dubois, Jacques
See Richard E. Goodman, SM4:Apr 72:399:8853

Dubouchet, Jacques L.
See Edmond E. Chapus, HY8:Aug 73:1270:9895

Duckstein, Lucien
Dsc, with Chester C. Kisiel, SA5:Oct 72:791:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825:8575
Dsc, with Chester C. Kisiel, HY12:Dec 72:2241:9391, of "Two-Distribution Method for Flood Frequency Analysis", HY1:Jan 72:29:8639
See Stephen C. Ko, SA6:Dec 72:869:9434
See Michael L. Popovich, EE5:Oct 73:577:10104

Dudley, Eugene F.
Environmental Aspects of Site Selection, PO1:June 72:21:8971
  TR:138:120

Dugan, Gordon L.
Effects of Coastal Water Disposal in Hawaii, with Reginald H.F. Young, EE5:Oct 73:691:10046

Duke, C. Martin
Economic and Social Aspects, State-of-Art Report 6, with Robert V. Whitman, Kyoji Nakagawa and Joaquin Monge, TB:73:Ib-6-255

Duke, James H., Jr.
See Daryl B. Simons, WW2:May 73:231:9731

Dukleth, Gordon W.
Dsc, HY11:Nov 73:10109, of "Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division", HY2:Feb 73:337:9571

Duncan, James M.
Earth Pressures on Structures Due to Fault Movement, with Guy Lefebvre, Preprint No.1949, Apr 73
Earth Pressures on Structures Due to Fault Movement, with Guy Lefebvre, SM12:Dec 73:1153:10237
Failure of Underwater Slope in San Francisco Bay, with Albert L. Buchignani, SM9:Sept 73:687:10019
Use of the Finite Element Method in Analysis of Soil-Structure Interaction, PES:73:III-265
See Gerald W. Clough, SM12:Dec 71:1657:8583
See Fred H. Kulhawy, SM7:July 72:653:9016
See Stephen G. Wright, SM9:Sept 72:869:9210
See Guy Lefebvre, SM7:July 73:495:9857
See Poul V. Lade, SM10:Oct 73:793:10057

Dundas, Robert M.
See Harold K. Pratt, SM10:Oct 72:1053:9290

Dunford, Fraser
Basis for Simulation Model of Container Terminal, TE3:Aug 72:607:9099
  TR:138:299

Dunham, James W.
Woven Plastic Cloth Filters for Stone Seawalls, with Robert J. Barrett, Preprint No.2018, Apr 73

Dunn, Phillip F., Jr.
Public Participation in Environmental Design of Flood Control Channels, PP3:July 72:363:9051
TR:138:432

Durkee, Jackson L.
Railway Box-Girder Bridge Erected by Launching, ST7:July 72:1443:9028
Errata: ST5:May 73:959:9693
TR:138:342

Durocher, Lawrence L.
Elastic-Plastic Buckling of Anisotropic Plates, with Anthony N. Palazotto, Preprint No.1997, Apr 73

Duru, J. Obiukwu
See Robert M. Ragan, HY10:Oct 72:1765:9275

Dutertre, Jean C.
See Raymond N. Yong, Preprint No.2020, Apr 73

Dworsky, Leonard B.
See John F. Wall, PP2:Apr 72:227:8829

Dym, Clive L.
Bifurcation Analyses for Shallow Arches, EM2:Apr 73:287:9649
See Charles G. Culver, ST10:Oct 72:2291:9302
See Charles G. Culver, ST3:Mar 73:417:9620
See Nicholas Mariani, ST4:Apr 73:757:9684

Dziewolski, Richard
Prestressed Composite Structures and Space Structures in the Construction of Tall Buildings, TB:73:Ia-3-615

Eakin, Jack H.
Dsc, CO1:July 73:212:9822, of "Responsibilities of the Engineer and the Contractor Under Fixed-Price Construction Contracts", CO1:Mar 72:103:8781

Earattupuzha, John J.
Dsc, with Harihar Raman, WW3:Aug 73:409:9897, of "Equilibrium Beach Profile Scale-Model Relationship", WW4:Nov 72:511:9367
Dsc, with Harihar Raman, WW3:Aug 73:410:9897, of "Maximum Breaker Height", WW4:Nov 72:529:9384

Earles, James D.
Irrigation Canal System Capacity Design Criteria, IR3:Sept 73:227:9973

Eberhard, John P.
A Systematic Approach to Tall Building Requirements, State-of-Art Report 5A, TB:73:Ia-1-133

Eberhart, Howard D.
Berkeley Offers Professional Masters Degree, CE:Nov 73:74

Echelberger, Wayne F., Jr.
Disinfection of Algal Laden Waters, with Joseph L. Pavoni, Philip C. Singer and Mark W. Tenney, SA5:Oct 71:721:8472
Dsc: Madhav L. Tikhe, SA6:Dec 72:1044:9393
TR:138:91

Eckel, Clarence Lewis
Clarence Eckel Dies, CE:Feb 73:71
Memoir of, TR:138:612

Eckenfelder, G. V.
Dsc, with J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45, on Tidal Energy from the Bay of Fundy, CE:Dec 72:40

Eckenfelder, W. Wesley, Jr.
Design and Economics of Joint Wastewater Treatment, SA1:Feb 72:153:8746
Dsc: Paul M. Berthouex, SA5:Oct 72:804:9225; Santosh R. Goswami, SA6:Dec 72:1053:9393
TR:138:261

Edinger, John Eric
Dsc, with Norio Yanagida, HY2:Feb 72:412:8681, of "Cooling Water Density Wedges in Streams", HY10:Oct 71:1639:8446

Edmonds, F. David
Approximate Determination of Frame Critical Loads, with Ian C. Medland, ST3:Mar 72:695:8771
Dsc: Brian R. Wood and Peter F. Adams, ST1:Jan 73:209:9462
Clo: ST7:July 73:1638:9826
TR:138:161

Edwards, Arthur D.
Theory of Cracking in Concrete Members, with Andre Picard, ST12:Dec 72:2687:9428
TR:138:584

Efimba, R. Elangwe
See Jose M. Roesset, ST4:Apr 73:637:9644

Efsen, Axel
Computation of Twin Walls Connected by Clamped Beams, with L. Pilegaard Hansen, TB:73:III-21-265

Egan, G. R.
See Stanley T. Rolfe, TB:73:II-18-781

Ehlers, Clarence J.
See Richard A. Sullivan, CO1:July 73:59:9844

Ehm, H.
Behavior of Structure under Fire, State-of-Art Report 2, TB:73:Ib-8-491

Ehrhart, Robert W.
See Haywood G. Dewey, Jr., Preprint No.1999, Apr 73
See Haywood G. Dewey, Jr., PO2:Nov 73:405:10169

Einstein, Hans Albert
Einstein Bed-Load Function at High Sediment Rates, with Farouk M. Abdel-Aal, HY1:Jan 72:137:8652
Dsc: Mohammad Akram Gill, HY10:Oct 72:1888:9222; H. D. Sharma, D. V. Varshney and Vijay K. Agarwal, HY2:Feb 73:375:9523
Clo: HY8:Aug 73:1269:9895
TR:138:117
Hans A. Einstein Dies At 69, CE:Sept 73:116

Einstein, Herbert H.
Model Studies on Mechanics of Jointed Rock, with Ronald C. Hirschfeld, SM3:Mar 73:229:9610

Eisenberg, Wilbert S.
Environmental Aspects of Jacksonville Harbor Project, WW2:May 73:265:9757

Ekizian, Harry
Planning Aspects for Variable and Fixed Heading Berthing Platforms, with Allan C. Cremer and Eric T. Dodge, Preprint No.2105, Oct 73

Elango, K.
See M.H. Abdul Khander, HY5:May 73:845:9689

El-Baroudi, Hassan M.
Tracer Dispersion of High Rate Settling Tanks, with David R. Fuller, EE3:June 73:347:9820

El-Demirdash, I. A.
Elastic and Limit States Design, TB:73:II-19-892

Elder, Rex A.
Inflow Density Currents in TVA Reservoirs, ISSF:Aug 72:221
See Sheng-Tien Hsu, HYB:Aug 73:177

El-Gaaly, Mohamed A.
See Kenneth C. Rockey, ST12:Dec 72:2739:9409

Ellifritt, Duane S.
Rapid Design of Tapered Rigid Frames, CE:July 72: 45
  TR:138:323

Elling, Rudolf
Concentrated Loads Applied to Shallow Shells, EM2: Apr 73:319:9651

Ellinger, Max
The Viennese Subway System, TB:73:C-P-269

Ellingwood, Bruce R.
Illustrations of Safety Evaluation and Risk-Based Design, with Alfredo H.-S. Ang, Preprint No.2023, Apr 73

Elliott, Arthur L.
Earthquakes -- We Live With Them But Don't Love Them, Preprint No.1927, Apr 73
Falsework Failures; Can They be Prevented?, CE:Oct 73:74
The San Fernando Earthquake - A Lesson in Highway and Bridge Design, CE:Sept 72:95
  TR:138:424
What Designers Should Know About Fracture Toughness, Preprint No.1928, Apr 73

Elliott, R. V.
See J. B. Bryce, ISSF:Aug 72:145

Ellis, Harold B.
Use of Cycloidal Arcs for Estimating Ditch Safety, SM2:Feb 73:165:9566
  Dsc: Bruce M. Thorson, SM11:Nov 73:1028: 10112
  Errata: SM6:June 73:481:9762

Ellis, Raymond H.
Reexamination of Transportation Planning, TE2:May 73:371:9752
See Paul R. Rassam, TE2:May 72:191:8884

Ellis, Wilbert M.
See Joe C. Willis, HY3:Mar 72:489:8765

Elmberg, Curt M.
Gothenburg (Sweden) Uses Barriers to Cut Traffic, CE:Sept 72:71
  TR:138:406

Elms, David G.
Towards a Comprehensive Computer-Aided Building Design System, State-of-Art Report 1, TB:73:C-AC31-167

El Nimeiri, Mahjoub
See Zdenek P. Bazant, EM6:Dec 73:1259:10247

El Nimur, Ahmed
Seepage from Trenches Through Nonhomogeneous Soils, with Robert L. Street, IR1:Mar 72:13:8777
  TR:138:185

Eloubaidy, Aziz F.
Wind Shear-Turbulence and Reaeration Coefficient, with Erich J. Plate, HY1:Jan 72:153:8651
  Dsc: Ronald E. Rathbun, HY9:Sept 72:1733:9156
  TR:138:111

Elphingstone, G.
See Kam W. Wong, SU2:Nov 72:219:9322

Elsamny, Mohammed K.
Stress Field Under Slipping Rigid Wheel, with Ahmed A. Ghobarah, SM1:Jan 72:13:8625
  Dsc: H. John Hovland, SM8:Aug 72:832:9078; Jo-Yung Wong, SM9:Sept 72:977:9158
  Clo: SM3:Mar 73:295:9582
  TR:138:113

El-Sohby, Mohamed A.
See Kamal Z. Andrawes, SM5:May 72:504:8860
See Kamal Z. Andrawes, SM7:July 73:527:9863

Elstner, Richard C.
Dsc, CE:Apr 73:81, on Structural Failures from the Human Side, CE:Jan 73:81

Elvers, Douglas A.
Planning Monitoring Frequencies for CPM Projects, CO2:Nov 71:211:8503
  Dsc: Robert I. Carr, Jr., CO2:Sept 72:360:9155
  Clo: CO1:July 73:207:9822
  TR:138:55

Ely, Allen L.
Congestion in Marina Entrance Channels Due to Sailboats, with John M. Nichol, WW4:Nov 73:415: 10137

Emerton, Robert K.
Symmetric Buckling of Inelastic Spherical Shells, with Nicholas F. Morris, EM6:Dec 72:1417:9446
  TR:138:586

Emery, Austin H.
Environmentally Sensitive Construction Procedures, Preprint No.2089, Oct 73

Emkin, Leroy Z.
Some New Plastic Analysis and Design Techniques, TB:73:II-15-377
Storywise Plastic Design for Multistory Steel Frames, with William A. Litle, ST1:Jan 72:327:8675
  TR:138:139

Emmerling, Clifford L.
Montana Power Company's Dam Repair Program, CO2:Sept 72:295:9208
  TR:138:565

Engelbrecht, Richard S.
See Malay Chaudhuri, SA6:Dec 71:944:8555

Engelund, Frank
Surface Jet at Small Richardson Numbers, with Flemming Bo Pedersen, HY3:Mar 73:405:9588
Dsc, WW3:Aug 71:590:8272, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155: 7869

England, Charles B.
Dsc, with Chin-lien Yen and Robert M. Dixon, HY9: Sept 73:1630:9961, of "Perturbation Analysis of Two-Phase Infiltration", HY9:Sept 72:1527:9186

English, Gordon W.
Experiments on Laterally Loaded Steel Beam-Columns, with Peter F. Adams, ST7:July 73:1457: 9851

Engstrom, S. L.
See D. E. Peterson, PO1:May 73:193:9736

Epps, Jon A.
See Bob M. Galloway, TE4:Nov 72:915:9347

Erickson, L. E.
See J. S. Shastry, EE3:June 73:315:9798
See P. N. Mishra, EE6:Dec 73:962:10180

Ericson, David K.
See Lewis G. Hulman, HY1:Jan 72:105:8668

Ericson, LeRoy
See Vincent G. Terenzio, SA5:Oct 72:789:9225

Erler, Bryan A.
See C. N. Krishnaswamy, ST7:July 73:1664:9826

Erzurumlu, Hacik
Fatigue of Orthotropic Steel Decks, with A. Anthony Toprac, ST4:Apr 72:813:8823
  TR:138:205

See R. O. Cunningham, Preprint No.1968, Apr 73

Esmaili, Houshang
Facility Selection and Haul Optimization Model, SA6:Dec 72:1005:9408
TR:138:528

Essunger, Gunnar
Architectural-Structural Interaction, Summary Report, TB:73:Ia-12-1163

Esteva, Luis
Structural Safety and Probabilistic Methods, Summary Report, TB:73:Ib-10-1043

Eswaraiah, H. V.
See Kanakapura S. Subba Rao, PO1:May 73:155:9708

Eubanks, Robert A.
See Mubadda T. Suidan, ST5:May 73:923:9749

Evans, Evan E.
See Raymond Eugene Davis, ST1:Jan 72:165:8631

Evans, Sidney H.
See Arthur Saltzman, TE4:Nov 72:855:9369

Everhart, Ralph C.
New Town Planned Around Environmental Aspects, CE:Sept 73:69

Everts, Craig H.
Particle Overpassing on Flat Granular Boundaries, WW4:Nov 73:425:10125

Evick, Donald R.
Torsion of Nonprismatic Beams of Open Section, with Conrad P. Heins, Jr., ST12:Dec 72:2769:9453
Clo: ST10:Oct 73:2213:10039
TR:138:587

Evstatiev, Dimtcho
Dsc, SM2:Feb 73:221:9524, of "Engineering Properties of Compacted Fly Ash", SM4:Apr 72:361:8840

Ewald, Robert H.
Interactive Graphics: Portability and Adaptability, with Larry J. Feeser and Robert L. Schiffman, Preprint No.2082, Oct 73

Eyre, Dale G.
Inelastic Shear Deflection of Steel Beams, ST10:Oct 73:1985:10052
Shakedown of Grids, with Theodore V. Galambos, ST10:Oct 73:2049:10049

Fagel, Lawrence W.
Earthquake Interaction for Multistory Building, with Shih-Chi Liu, EM4:Aug 72:929:9149
Errata: EM3:June 73:603:9759
TR:138:416

Faig, Wolfgang
Photogrammetry and Hydraulic Surfaces, SU2:Nov 72:145:9337
Errata: SU1:Sept 73:142:9965
TR:138:525

Fair, Ernest W.
Retirement Starts Now, CE:Nov 73:77

Fairhurst, Charles
See M. P. Hardy, RM14:73:749

Fairweather, Virginia
The Fickle Mississippi, CE:Dec 73:60
San Antonio: Classic "Stop the Freeway" Case, CE:July 73:59
Dsc: Dean O. Chadwick, CE:Nov 73:38

Falk, Norman D.
Dsc, CE:Oct 73:26, on Is Management The Answer?, CE:May 73:89

Fallgren, Richard B.
Aseismic Design Criteria for Electrical Facilities, with Paul C. Jennings and J. L. Smith, Preprint No.2014, Apr 73

Faltus, Frantisek
Current Specifications for Steel Buildings in Czechoslovakia and Comments to Standards in Some Other East-European Countries, State-of-Art Report 3, with Pavel J. Marek, TB:73:II-13-37

Fam, Adel
Dsc, with Carl J. Turkstra, ST5:May 72:1212:8861, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453
Dsc, with Carl J. Turkstra, ST10:Oct 72:2320:9227, of "Model Analysis of Curved Box-Beam Highway Bridge", ST12:Dec 71:2861:8603

Fan, L. T.
See J. S. Shastry, EE3:June 73:315:9798
See P. N. Mishra, EE6:Dec 73:962:10180

Fang, Hsai-Yang S.
Landslides and Foundation Design, TB:73:Ia-11-1012

Farell, Cesar
Dsc, with Subhash C. Jain and Oktay Guven, HY7:July 73:1167:9823, of "Dynamics of Contained Oil Slicks", HY6:June 72:1013:8950

Farley, Donald W.
See David R. Townsend, Preprint No.1918, Jan 73
See David R. Townsend, HY10:Oct 73:1659:10070

Farnam, William Orrin, Jr.
Memoir of, TR:138:623

Farnes, Phillip E.
Reservoir Operation Using Snow Survey Data, HYB:Aug 73:249

Farquhar, Grahame J.
See James R. McLaren, EE4:Aug 73:429:9901
See Frank A. Rovers, EE5:Oct 73:671:10047

Farrell, Stewart C.
See Joseph M. Colonell, HYB:Aug 73:131

Fattah, Quais Nuri
Iraqi Wins Smith Fellowship For '73, CE:Sept 73:113

Faust, Samuel D.
See Peter W. Anderson, IR3:Sept 72:375:9205

Fawcett, D. W.
Dsc, SM8:Aug 73:638:9892, of "Strength Properties of Chemically Solidified Soils", SM11:Nov 72:1163:9332

Fazio, Paul P.
Failure Modes of Folded Sandwich Panel Roofs, ST5:May 72:1085:8913
TR:138:261

Feaver, Douglas D.
Tall Buildings in Antiquity, TB:73:Ia-1-251

Feeser, Larry J.
See Robert H. Ewald, Preprint No.2082, Oct 73

Fekete, George
Engineer's Notebook: Ultimate Strength Design Of Circular Reinforced Concrete Cross Sections, CE:Nov 73:80

Feld, Jacob
Foundation Failure, CE:June 73:89
Dsc: M. D. Morris, CE:Aug 73:20

Supported Decks for Commercial and Residential Development, Preprint No.2064, Oct 73
Dsc, PES:73:III-174, of "Load Tests on Small Foundations in Soft Clay", PES:72:I-903

Feldman, Robert C.
Computer Use on an Environmental Engineering Project, CE:Jan 73:60

Fellenius, Bengt H.
Precast Concrete Piles, State-of-Art Report 4B, TB:73:Ia-11-941

Feng, Tsuan H.
See Lawrence N. Kuzminski, SA1:Feb 72:229:8722

Fennell, Clarence J.
Four Win ASCE Zone Scholarships, CE:Sept 73:112

Ferahian, Ramzi H.
Design for Prevention of Progressive Collapse, CE:Feb 72:66
  TR:138:102
Dsc, CE:Aug 72:68, on Report on Conference on 1971 San Fernando, Ca., Earthquake, CE:May 72:58

Ferguson, Phil M.
See K. S. Rajagopalan, ST9:Sept 72:2097:9209
See Syed I. Husain, ST12:Dec 73:2495:10185

Ferrara, Thomas C.
Public Participation in Urban Water Planning, with Karl M. Romstad and William K. Johnson, UP2:Dec 71:179:8585
  Dsc: Robert L. McFall, UP1:Mar 73:122:9584
Dsc, with Nathan D. Meeks, PP4:Oct 73:543:10040, of "Upgrading Student Membership", PP1:Jan 73:119:9508

Ferreri, Michael G.
Public Participation in Urban Transit Service, TE4:Nov 73:701:10121

Fialkow, Morris N.
Safe Limit Loading of Folded Plate Structures, ST10:Oct 72:2181:9249
  TR:138:483
Dsc, EM6:Dec 72:1601:9390, of "Elastic-Plastic Analysis of Cylindrical Shells", EM1:Feb 72:47:8717

Fiedler, David R.
See Fred C. Teitgen, CE:Nov 73:82

Field, Richard
Combined Sewer Overflows, CE:Feb 73:57

Fielding, David J.
Steel Frame Analysis and Connection Shear Deformation, with Wai F. Chen, ST1:Jan 73:1:9481
See Wai F. Chen, TB:73:II-15-365

Fietz, Trevor R.
Dsc, HY5:May 73:855:9689, of "Hydraulic Network Analysis Using Linear Theory", HY7:July 72:1157:9031
Dsc, HY11:Nov 73:2136:10109, of "Efficient Algorithm For Distribution Networks", HY11:Nov 72:1911:9336

Finch, Stanley P.
Memoir of, TR:138:624

Fink, Leo E.
Dsc, HY5:May 73:850:9689, of "Turbulent Compound Annular Shear Layers", HY7:July 72:1101:9009

Finley, Ewell W.
Training Minorities for Construction Work, CE:Mar 72:76
  TR:138:161

Fintel, Mark
Creep, Shrinkage and Temperature Effects, Theme Report, TB:73:III-25-741
Quake Lesson from Managua: Revise Concrete Building Design, CE:Aug 73:60
  Errata: CE:Sept 73:29

Finzi, Leo
Elastic Analysis and Design, Summary Report, TB:73:II-14-247

Fiorato, Anthony E.
Dimensional Tolerance in Concrete, with Sven Sahlin, TB:73:Ib-9-893

Fiore, Joseph V.
See Martin S. Hertzendorf, SA2:Apr 72:379:8821

Fischer, Hugo B.
Dsc, HY12:Dec 72:2245:9391, of "Repeatability in Estuarine Hydraulic Model", HY4:Apr 72:631:8832
See James Weil, HYB:Aug 73:189

Fischer, William A.
Dsc, IR3:Sept 72:505:9157, of "Assessing Social Consequences of Water Deficiencies", IR4:Dec 71:547:8566

Fisher, John W.
High Cycle Fatigue of Connections and Details, State-of-Art Report 4, with T. R. Gurney, TB:73:II-18-757
See Edward H. Power, ST9:Sept 72:1923:9200
See Karl H. Frank, ST1:Jan 73:221:9462

Fisher, Joseph L.
Water Resources in the Future: Directions and Prospects, PP3:July 72:343:9040
  Dsc: Adolph J. Ackerman, PP3:July 73:408:9824
  TR:138:407

Fisher, Norman W.F.
Dsc, TE3:Aug 73:683:9896, of "Cost Estimating Model for Rural Interstate Highways", TE3:Aug 72:531:9138

Fisher, Suzy
Crane Safety, CE:Feb 72:61
  Dsc: Lee W. Crandall, CE:June 72:73
  TR:138:93

Fitzgerald, Patrick D.
Water Requirements of Rostered Irrigation Schemes, with Gregory C. Arnold, IR1:Mar 72:91:8767
  TR:138:131

Fitzpatrick, Edward B., Jr.
The Outfall Sewer Story, Preprint No.2107, Oct 73

FitzSimons, Neal
A Biographical Dictionary of American Civil Engineers, by the Committee on History and Heritage of American Civil Engineering, BDACE:72:
  TR:138:137
Civil Engineering History: An Appraisal, PP3:July 73:327:9875
The History and Philosophy of Tall Buildings, State-of-Art Report 1, TB:73:Ia-1-41
Theme Report, Committee on the Survey of Tall Buildings, TB:73:C-AC14-87

Flajser, Steven
Maritime Extensions of Trans-Alaska Pipeline, with Edward Wenk, Jr., PP2:Apr 73:245:9665

Flavin, Charles H.
See Satoshi Oishi, Preprint No.2048, July 73

Flaxman, Elliott M.
Predicting Sediment Yield in Western United States, HY12:Dec 72:2073:9432
Dsc: Kenneth G. Renard and J. Roger Simanton, HY9:Sept 73:1647:9961; Stafford C. Happ, HY10:Oct 73:1890:10037; Vijay P. Singh, HY10:Oct 73:1891:10037; Vaclav Kolar, HY10:Oct 73:1894:10037
TR:138:585

Fleming, George
Flood Frequency Estimating Techniques for Small Watersheds, with Delbert D. Franz, HY9:Sept 71:1441:8383
Dsc: Alan M. Lumb, HY2:Feb 72:408:8681; Manuel A. Benson, HY2:Feb 72:408:8681; Chester C. Kisiel, HY9:Sept 72:1720:9156
Clo: HY4:Apr 73:678:9637
TR:138:23

Fleming, John F.
See Walter Podolny, Jr., ST9:Sept 72:2079:9201

Flesher, H. L.
Banquet Remarks, TB:73:C-514

Fling, Russell S.
Elastic Analysis-Strength of Members and Connections, Theme Report, TB:73:III-21-149

Flint, Norman K.
See James V. Hamel, SM2:Feb 72:167:8731

Florman, Samuel C.
Anti-Technology--The New Myth, CE:Jan 72:68
Dsc: Burr L. McCorkle, CE:Apr 72:49; Sidney Zecher, CE:Apr 72:49; Don Johnstone, CE:Apr 72:57; Kurt V. Leininger, CE:Apr 72:59; Richard C. Huning, CE:Apr 72:59; William G.G. Blakney, CE:Apr 72:59; Charles B. Notess, CE:May 72:40; Leon Winters, CE:Apr 73:81
TR:138:53
The Engineer and Pollution Control - Some Objections to the Simplistic Approach, PP3:July 72:383:9043
TR:138:418

Flower, William R.
Analysis of Space Truss as Equivalent Plate, with Lewis C. Schmidt, ST12:Dec 71:2777:8569
Dsc: John D. Renton, ST10:Oct 72:2318:9227
Clo: ST4:Apr 73:789:9640
TR:138:38

Focht, John A., Jr.
Soil-Structure Interaction for Tall Buildings, TB:73:Ia-11-1008

Foess, Gerald W.
Dsc, EE1:Feb 73:104:9521, of "Filtrability Study on Secondary Effluent Filtration", SA3:June 72:505:8965

Foley, James W.
Multilevel Control of Multipollutant System, with Yacov Y. Haimes, EE3:June 73:253:9795

Folsom, David
See Michael E. McCormick, WW4:Nov 73:485:10179

Fontane, Darrell G.
Simulation of Impoundment Turbidity Structure, Preprint No.2083, Oct 73

Fordham, John W.
See Vulli L. Gupta, HY6:June 72:1049:8969

Foree, Edward G.
Carbon and Nitrogen as Regulators of Algal Growth, with Charles R. Scroggin, EE5:Oct 73:639:10043

Forsberg, Clarence R.
Dsc, SA6:Dec 72:1058:9393, of "Oxygen Depletion in Ice Covered River", SA2:Apr 72:341:8841

Fortey, J. W.
Flow-Induced Vibrations of Trashrack Bars, with Robert F. Tiry, CE:May 72:44
TR:138:230

Fourcriat, J.
See J. Brozzetti, TB:73:II-16-415

Fowler, Lloyd C.
Considerations of Pipeline Tension Tie Problems, with Richard P. Lundahl and Robert W. Purdie, TE4:Nov 72:969:9380
TR:138:573

Fowler, Timothy J.
Correlation of Test Results with Theoretical Analysis for Plastic Structures, Preprint No.1955, Apr 73

Fox, George A.
The Role of Contract and Specifications in Subsurface Construction -- A Contractor's View, Preprint No.2099, Oct 73

Fox, Gerard F.
Tall Buildings Bibliography, TB:73:C-AC10-39

Fox, Irving K.
Integrating All Aspects of Regional Water Systems, HY4:Apr 73:599:9662

Fox & Associates
Central Square, TB:73:C-P-424

Franco, John J.
Dsc, HY11:Nov 71:1913:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual", HY1:Jan 71:101:7786

Francois, Francis B.
Urban Water Resources -- The Politics of Management, Preprint No.1876, Jan 73
Urban Water Resources - The Politics of Management, PP3:July 73:365:9879

Frank, Karl H.
Dsc, with John W. Fisher, ST1:Jan 73:221:9462, of "Fatigue of Cover Plated Beams Under Varying Loads", ST4:Apr 72:915:8855

Franklin, Arley G.
Compaction of Slightly Organic Soils, with Luis F. Orozco and Rodolfo Semrau, SM7:July 73:541:9873

Franz, Delbert D.
See George Fleming, HY9:Sept 71:1441:8383

Franz, Dieter
See D. A. Polychrone, CE:Nov 72:44

Fratt, Jack M.
Structural Repair of Earthquake Damaged Buildings, Preprint No.1973, Apr 73

Fread, Danny L.
Transient Hydraulic Simulation of Breached Earth Dams, with Terence E. Harbaugh, HY1:Jan 73:139:9466

Frederick, Daniel
See S. V. Kulkarni, EM3:June 73:537:9808

Fredrich, Augustine J.
Public Policy: Who Speaks for the Engineer?, Preprint No.2051, July 73

Freedman, Sidney
Specifying Structural Concrete for Buildings, CE:Nov 73:68

Freiermuth, John M.
Dsc, "Traffic Engineering, Theory And Practice", CE:Dec 73:24

French, Jonathan A.
Dsc, EE3:June 73:392:9758, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403

Freskakis, George N.
Asymmetrical Buckling of Imperfect Spherical Shells, with Nicholas F. Morris, EM5:Oct 72:1115:9247
  TR:138:471

Fresko, Davit
Analysis of Need for Goods Movement Forecasts, with Gordon Shunk and Franklin Spielberg, UP1: July 72:1:9017
  TR:138:87

Freymuth, Peter
Dsc, EM6:Dec 73:1305:10181, of "Turbulence Effect on Wall Pressure Fluctuations", EM6:Dec 72:1365: 9445

Fricker, A.
Dsc, with F. Sawko, ST7:July 73:1654:9826, of "Stiffness Analysis of Grids Including Warping", ST7:July 72:1511:9022

Friedland, Lewis
See William R. Spillers, ST10:Oct 72:2155:9245

Frobenius, Peter
See Edward W. Peterson, SU1:Sept 73:21:10008

Frost, Raymond J.
Guidelines for Compaction Control of Fill, TN: SM12:Dec 73:1189:10189
Dsc, SM12:Dec 72:1411:9394, of "Evaluation of Properties of Rockfill Materials", SM1:Jan 72:95: 8672
Dsc, SM9:Sept 73:723:9963, of "Lateritic Gravel Evaluation For Road Construction", SM11:Nov 72: 1245:9375

Fruin, John J.
Environmental Factors in Passenger Terminal Design, TE1:Feb 72:89:8734
  TR:138:71
Goods Movement on Urban Transit Systems, TE3: Aug 72:617:9139
  TR:138:411
Pedestrian System Planning for High Rise Buildings, Preprint No.2055, July 73
Pedway Systems in Urban Centers, CE:Sept 73:63
Service and Capacity of People Mover Systems, TE3: Aug 73:489:9942

Frunza, Radu
See Iosif Gruner, TB:73:III-25-827

Fruth, L. S., Jr.
See F. A. Donath, RM14:73:189

Fry, Albert S.
Fry Honored By Publication, CE:May 73:61

Fry, Zelma B.
See Robert W. Cunny, SM12:Dec 73:1055:10219

Fryer, Wilton B.
See Dwight C. Baier, IR2:June 73:133:9783

Fu, Houeh-chien
Indirect Structural Analysis by Finite Element Method, ST1:Jan 73:91:9478
  Errata: ST10:Oct 73:2214:10039

Fucik, E. Montford
Dsc, SM9:Sept 72:972:9158, of "Heave and Lateral Movements Due to Pile Driving", SM11:Nov 71: 1513:8497

Fujimoto, Morihisa
Current Japanese Standards for Tall Steel Buildings, State-of-Art Report 5, with Issao Funahashi, TB:73: II-13-87

Fukuoka, Shoju
Longitudinal Dispersion in Sinuous Channels, with William W. Aure, HY1:Jan 73:195:9479

Fulco, Norman J.
Are More Women Needed in Civil Engineering, with Eugene E. Dallaire, CE:May 73:54
  Dsc: Sandra Johnson, CE:July 73:25; Della Laura, CE:July 73:25; Amos Roos, CE:July 73:26; Dorothy M.N. McClellan, CE:July 73:26; Della Laura, CE:Oct 73:32

Fuller, David R.
See Hassan M. El-Baroudi, EE3:June 73:347:9820

Fuller, Frank M.
Dsc, SM7:July 73:569:9825, of "Soil Conditions and Building Damage in 1967 Caracas Earthquake", SM8:Aug 72:787:9108

Fults, Dan M.
Optimum Operations Model for Shasta-Trinity System, with Lawrence F. Hancock, HY9:Sept 72: 1497:9176
  TR:138:450

Funahashi, Issao
See Morihisa Fujimoto, TB:73:II-13-87

Fungaroli, A. Alexander
See Robert J. Schoenberger, SM10:Oct 71:1431:8451

Funge, William J.
Suggested Planning Procedures for Obtaining Environmental Approval of Offshore Terminals, Preprint No.2104, Oct 73

Funk, Peter
Stiffness Requirements in Terms of Human Comfort (Dynamic Criteria), TB:73:III-24-705

Furkert, Richard E.
See Jack C. Wiley, EM6:Dec 72:1353:9441

Furlong, Richard W.
Composite Columns -- Present Standards of the ACI Building Code, TB:73:III-23-603
Limit Design -- For The Office and The Laboratory, Preprint No.1987, Apr 73
See James Colville, ST3:Mar 73:349:9593

Furman, Thomas deS.
Specialty Registration for Engineers, CE:Dec 72:32
  Dsc: Paul W. Merkens, CE:Mar 73:89; Rex A. Tynes, CE:Mar 73:89; John P. Piercy, CE:Mar 73:89
  TR:138:522
Dsc, PP2:Apr 72:173:8857, of "Professional Recognition -- How?", PP2:Apr 72:169:8857

Furmaniak, Thomas B.
See George R. Beetle, TE4:Nov 73:966:10110

Furumoto, Augustine S.
See George T. Taoka, Preprint No.1934, Apr 73

Gabrysh, Andrew F.
Dsc, CE:Apr 73:73

Gail, Charles P.
Subsurface Freezing Used In Tunneling, CE:May 72:37
Dsc: Berlen C. Moneymaker, CE:Aug 72:59; John C. Custer, CE:Aug 72:59; Bertram W. Goodenough, CE:Dec 72:31; H. W. Love, CE:May 73:58
TR:138:221

Galambos, Charles F.
Long Term Observations on Highway Bridges, Preprint No.1960, Apr 73

Galambos, Theodore V.
Load Factor Design for Combination of Loads, with Mayasandra K. Ravindra, Preprint No.1940, Apr 73
Response Function, State-of-Art Report 4, TB:73:II-19-861
See Dale G. Eyre, ST10:Oct 73:2049:10049

Galbreath, M.
Comments on Fire, with J. H. Mc Guire and B. E. Allen, TB:73:Ib-8-721

Gallagher, Richard H.
Finite Element Shallow Lake Circulation Analysis, with James A. Liggett and Stevens T.K. Chan, HY7:July 73:1083:9855

Gallagher, Ronald P.
See George S. Korbay, CE:Jan 72:52

Galler, William S.
See Harold B. Gotaas, EE6:Dec 73:831:10191

Galloway, Bob M.
Current Methods For Improved Tire-Pavement Interaction, with Jon A. Epps, TE4:Nov 72:915:9347
Dsc: Kenneth R. Peattie, TE3:Aug 73:685:9896
TR:138:505

Galvan, John J.
A Possible 1-Point System Method For Laboratory Compaction Testing, CE:Mar 72:78
Dsc: Norbert O. Schmidt, CE:Nov 72:56
Clo: CE:Mar 73:82
TR:138:165

Galvin, Cyril J., Jr.
Dsc, WW4:Nov 73:499:10114, of "Maximum Breaker Height", WW4:Nov 72:529:9384

Gammelgard, P. N.
The Engineer: Public Policy and Petroleum Pipelines, Preprint No.2111, Oct 73

Gandy, Bruce C.
Rigid Urethane Foam Cures Roof Leakage, CE:July 73:73

GangaRao, Hota V.S.
Dynamic Field Analysis of Torsionless Grids, with J. C. Smith, EM3:June 72:679:8993
TR:138:330
Rectangular Prestressed Beams in Torsion and Bending, with Paul Zia, ST1:Jan 73:183:9501

Gangstad, Edward O.
Herbicidal Control of Aquatic Plants, SA2:Apr 72:397:8851
Dsc: Tagadur P. Halappa Gowda, EE1:Feb 73:101:9521
Clo: EE4:Aug 73:558:9893
TR:138:341
See Thomas R. Bartley, Preprint No.1870, Jan 73

Garcia-Martinez, Luis E.
Parameter Estimation for First-Order Autoregressive Model, HY8:Aug 72:1343:9119
TR:138:426

Garg, Satya P.
Bed Load Transportation in Alluvial Channels, with Ashutosh K. Agrawal and Prem Raj Singh, HY5:May 71:653:8091
Dsc: William C. Harmon, HY1:Jan 72:291:8620; S. N. Sarkar, HY10:Oct 72:1872:9222; Oner Yucel, HY1:Jan 73:263:9459
Clo: HY12:Dec 73:2383:10182
TR:138:2
Efficiency of Hydraulic Jump, with Hari R. Sharma, HY3:Mar 71:409:7994
Dsc: Frederic T. Mavis, HY9:Sept 71:1570:8345; James J. Sharp, HY9:Sept 71:1571:8345; Khalid Mahmood, HY10:Oct 71:1790:8407; Rupchand M. Advani and Pashupati N. Modi, HY11:Nov 71:1923:8483; Mohan M. Dandekar, HY12:Dec 71:2107:8552; Frank Y. Tsai, HY12:Dec 71:2108:8552; Friedrich K. Hartung and Klausotto Csallner, HY1:Jan 72:278:8620
Clo: HY3:Mar 73:527:9580
TR:137:934

Garland, George A.
See Robert M. Clark, SA5:Oct 71:563:8403

Garlanger, John E.
See D. Joseph Hagerty, PES:72:I-1207

Garnett, Michael A.
Offshore Structures - Statistical Strain Recording, with Bhan Mabin and Terrence E.H. Lemmon, ST3:Mar 72:587:8785
TR:138:177

Garratt, David L.
Rochester High-Rise 'Safety Package', CE:July 73:66
Clo: CE:Nov 73:22

Garrett, William R.
See David D. Woodbridge, Preprint No.2085, Oct 73

Garrison, C. J.
Impulsive Hydrodynamics of Submerged Rigid Bodies, with Ronald B. Berklite, EM1:Feb 73:99:9563
Dsc: Bruce W. Hunt, EM5:Oct 73:1101:10041
Wave Forces on Submerged Bodies, with P. Y. Chow, WW3:Aug 72:375:9098
TR:138:371
Dsc, HY7:July 73:1196:9823, of "Nonlinear Wave Forces on a Vertical Cylinder", HY11:Nov 72:1895:9333

Gates, Marvin
Learning and Experience Curves, with Amerigo Scarpa, CO1:Mar 72:79:8778
TR:138:232

Gaudy, Anthony F., Jr.
See Thazhethil K. George, EE5:Oct 73:593:10103

Gaunt, John T.
See John E. Goldberg, ST4:Apr 73:741:9683

Gaus, Michael P.
Closing Remarks at the Tall Buildings Conference, TB:73:C-509
Field Observations, Theme Report, TB:73:C-AC17-127

Gavarini, Carlo
Dsc, with Daniele Veneziano, ST1:Jan 73:219:9462, of "Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative Committee on Analysis and Design for the Structural Division", ST4:Apr 72:845:8842
See Giulio Ceradini, EM6:Dec 73:1299:10181

Gay, Jack E.
See Kenneth Medearis, CE:July 73:82

Gaylord, Edwin H.
Elastic Analysis and Design, Theme Report, TB:73:II-14-153

Gburek, William J.
Subcritical Kinematic Flow in a Stable Stream, with Donald E. Overton, HY9:Sept 73:1433:10026

Gebhart, Lloyd R.
Experimental Cationic Asphalt Emulsion Grouting, SM9:Sept 72:859:9172
TR:138:446

Gedney, Robert H.
Development Planning of Laguna de Bay -- Philippines, HY12:Dec 73:2367:10227

Gehner, Claus D.
See Jerry B. Schneider, Preprint No.2040, July 73

Gelbert, Menachem
See Jacob Gluck, ST9:Sept 72:2031:9196

Gelerman, Walter
Planning for Satellite Airports, with Richard de Neufville, TE3:Aug 73:537:9951

Gelhar, Lynn W.
Gravitational and Dispersive Mixing in Aquifers, with John L. Wilson, III and John S. Miller, HY12: Dec 72:2135:9439
TR:138:588
See James F. Ruff, EM4:Aug 72:975:9144
See Michael A. Collins, HY9:Sept 72:1701:9215

Gemmell, Robert S.
See Jarir S. Dajani, SA6:Dec 72:853:9414
See Jarir S. Dajani, Preprint No.1898, Jan 73
See Jarir S. Dajani, UP2:Sept 73:171:9977

Genecki, Paul L.
Professional Liability Insurance, PP2:Apr 72:213: 8820
Dsc: Otto C. von Seggern, PP4:Oct 72:735:9224
TR:138:250

Genikhovich, E. L.
See M. E. Berlyand, ISSF:Aug 72:125

Gennis, Ivan F.
Coordinated Mapping Program Saves Money for County, with Joseph P. Allesandri, CE:Dec 73:45

Gensert, R. M.
Practical Design of Masonry Buildings, with William C. Bretnall, TB:73:III-27-1069

Gent, Allan R.
British Column Design, TB:73:II-16-545

George, Kalankamary P.
Dsc, SM12:Dec 73:1172:10184, of "Model Investigations of Pile Groups in Sand", SM2:Feb 73:199:9579
See Bal K. Sanan, SM12:Dec 72:1375:9454

George, Thazhethil K.
Response of Completely Mixed Systems to Hydraulic Shock Loads, with Anthony F. Gaudy, Jr., EE5:Oct 73:593:10103

Georgiev, Borislav V.
Measurements of Large Scale Circulation in Cooling Reservoir by Means of Radiosotopes, with Evelin Monev, ISSF:Aug 72:519
Some Experimental Investigation of Turbulent Characteristics of Stratified Flows, ISSF:Aug 72:509

Gerberich, William W.
See James M. Becker, ST1:Jan 72:37:8624

Gergely, Peter
Cracking and Crack Control, State-of-Art Report 1, TB:73:III-24-645
Experimental Investigation Of Thin-Steel Hyperbolic Paraboloid Structures, with George Winter, ST10: Oct 72:2165:9236
TR:138:473
See Prabodh V. Banavalkar, ST11:Nov 72:2605:9356

Gero, John S.
Sun Shading, Shadows and Effects on Traffic, TB:73: Ia-1-259

Gerrard, Charles M.
See Jack R. Morgan, SM12:Dec 71:1675:8577
See W. Jill Harrison, SM12:Dec 72:1325:9417

Gerstle, Kurt H.
Flexural Characteristics of Reinforced Concrete Members, State-of-Art Report 1, TB:73:III-22-353
See John D. Meyer, ST1:Jan 72:95:8641
See Hon-Yim Ko, RM14:73:157
See George S. McClure, Jr., ST2:Feb 73:243:9564
See Helmut B. Kupfer, EM4:Aug 73:853:9917

Gerwick, Ben C., Jr.
Concrete Oil Storage Tank to Rest in North Sea, with Eivind Hognestad, CE:Aug 73:81
High Capacity Prestressed Concrete Piling, TB:73:Ia-11-985
Dsc, WW2:May 72:293:8863, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527

Gessler, Johannes
Vectors in Dimensional Analysis, EM1:Feb 73:121: 9561

Gesund, Hans
Stiffness of Reinforced Concrete Columns in Biaxial Bending, with Charles E. Vandenvelde, TB:73:III-22-455
See Bandaru Venkateswarlu, ST12:Dec 72:2663:9423
See Sateesh J. Nabar, ST5:May 73:953:9693

Ghaboussi, Jamshid
Finite Element for Rock Joints and Interfaces, with Edward L. Wilson and Jeremy Isenberg, SM10:Oct 73:833:10095
Seismic Analysis of Earth Dam-Reservoir Systems, with Edward L. Wilson, SM10:Oct 73:849:10053
Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids, with Edward L. Wilson, EM4:Aug 72:947:9152
Dsc: Ismael Herrera and Jacobo Bielak, EM5:Oct 73:1097:10041
TR:138:425

Ghali, Amin
See Gamil S. Tadros, EM5:Oct 73:1023:10054

Ghazzaly, Osman I.
See Albert J. Bonar, TE2:May 73:211:9718

Ghobarah, Ahmed A.
See Mohammed K. Elsamny, SM1:Jan 72:13:8625

Ghosh, Satyendra K.
See M. A. Cohn, EM5:Oct 72:1133:9246

Gianelli, William R.
California Water Project, with Robert B. Jansen, CE: June 72:78
TR:138:307

Giangreco, Elio
Current Specifications for Steel Structures in Some West European Countries, State-of-Art Report 2, TB:73:II-13-23

Gibbs, Charles V.
Basin Management Techniques for Sewerage Agencies, with Allan L. Poole, SA3:June 72:491: 8960
TR:138:375
A System for Regulation of Combined Sewage Flows, with Stuart M. Alexander and Curtis P. Leiser, SA6:Dec 72:951:9402
TR:138:506

Gibbs, William R.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Gibson, David R.
See Jason C. Yu, Preprint No.2034, July 73

Gibson, Robert E.
See Peter T. Brown, TN: SM10:Oct 73:917:10042

Gidlund, Erik R.
See Burton A. Segall, SA4:Aug 72:647:9109

Giguere, Ronald K.
See Jason C. Yu, TE4:Nov 73:725:10126

Gilbert, Gorman
Markov Renewal Model of Linked Trip Travel Behavior, with George L. Peterson and Joseph L. Schofer, TE3:Aug 72:691:9112
TR:138:339

Gilchrist, Gibb
Gibb Gilchrist Dead, CE:Mar 73:98
Memoir of, TR:138:614

Gilde, Louis C.
Land Treatment of Food Processing Wastewaters, IR3:Sept 73:339:10000

Gill, Mohammad Akram
Erosion of Sand Beds Around Spur Dikes, HY9:Sept 72:1587:9198
Dsc: Charles R. Neill, HY5:May 73:860:9689; Kikkeri L.V. Ramu, HY8:Aug 73:1272:9895; Zdenek Thomas, HY8:Aug 73:1274:9895; Michael A. Stevens and Daryl B. Simons, HY9:Sept 73:1634:9961; Pande B.B. Lal, HY9:Sept 73:1635:9961; L. Veiga da Cunha, HY9:Sept 73:1637:9961; Mushtaq Ahmad, HY9:Sept 73:1639:9961
TR:138:476
Height of Sand Dunes in Open Channel Flows, HY12:Dec 71:2067:8612
Errata: HY4:Apr 73:683:9637
TR:137:967
Dsc, WW4:Nov 71:768:8488, of "Flume Experiments on Alternate Bar Formation", WW1:Feb 71:155:7869
Dsc, IR2:June 72:331:8926, of "Tunnel Vision or Ecological View", IR3:Sept 71:397:8368
Dsc, HY10:Oct 72:1880:9222, of "Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation", HY12:Dec 71:1979:8591
Dsc, HY10:Oct 72:1888:9222, of "Einstein Bed-Load Function at High Sediment Rates", HY1:Jan 72:137:8652

Gillan, Gerald K.
Dsc, CE:Apr 72:62, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Gilligan, John A.
Connections, State-of-Art Report 5, with Wai F. Chen, TB:73:II-15-327

Gillis, Lyman R.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Gilmore, M. I.
CIL House, TB:73:C-P-284
Commerce Court, TB:73:C-P-294
Royal Bank Building, TB:73:C-P-288
Toronto-Dominion Center, TB:73:C-P-301

Giratalla, M. K.
See John A. McCorquodale, HY4:Apr 72:667:8846

Girault, Pablo
Design and Performance of Deep Foundations -- Reporter's Summary, PES:73:III-211

Gitlin, H. M.
See I-pai Wu, IR2:June 73:157:9786

Gladwell, Graham M. L.
See Donald E. Grierson, ST5:May 71:1561:8127

Glassman, Ami
Behavior of Crossed Beams on Elastic Foundations, SM1:Jan 72:1:8626
Dsc: B. Ramanathan, SM12:Dec 72:1408:9394
Clo: SM6:June 73:475:9762
TR:138:125

Glenn, Jerry L.
See Herbert H. Stevens, Jr., HYB:Aug 73:279

Glenne, Bard
Coastal Current of Pacific Northwest, with Robert H. Bourke, WW4:Nov 72:433:9371
TR:138:574

Glockner, Peter G.
Lagrangian Formulation of Sandwich Shell Theory, with David. J. Malcolm, EM3:June 73:445:9775
Symmetry in Structural Mechanics, ST1:Jan 73:71:9475
Dsc: Vasant S. Kelkar, ST11:Nov 73:2322:10113; Gregory Szuladzinski, ST11:Nov 73:2322:10113; Paul W. Abeles, ST12:Dec 73:2498:10185
See Frank G. Bercha, EM4:Aug 72:823:9095
See David J. Malcolm, EM5:Oct 72:1075:9240
See David J. Malcolm, EM5:Oct 72:1183:9244
See Frank G. Bercha, EM5:Oct 73:1053:10093

Glosten, Lawrence R.
Ocean Tug-Barge Systems, WW2:May 72:243:8868
TR:138:243

Glover, George E.
Dsc, SA4:Aug 72:671:9077, of "Problems in Obtaining Adequate Sewage Disinfection", SA5:Oct 71:549:8430

Gloyna, Earnest F.
See Ernst M. Davis, SA1:Feb 72:59:8714
See Almond J. Hays, Jr., SA1:Feb 72:195:8715

Gluck, Jacob
Buckling of Lateral Restrained Thin-Walled Cantilevers of Open Cross Section, with Menachem Gelbert, ST9:Sept 72:2031:9196
TR:138:451
Elastic Analysis of Tall Concrete Buildings, TB:73:III-21-300
Elasto-Plastic Analysis of Coupled Shear Walls, ST8:Aug 73:1743:9920
Polynomial Stiffness Coefficients, TB:73:II-16-593
Stress Analysis of Group of Interconnected Thin-Walled Cantilevers, with Mordechai Krauss, ST10:Oct 73:2143:10089
Torsional-Flexural Vibration of Multi-Story Structures, TB:73:Ib-6-298
See Ephraim Spira, ST6:June 72:1339:8930

Glynn, Thomas M.
See Vincent D. Arp, TE4:Nov 73:873:10163

Gnaedinger, John P.
See A. L. Ruiz, SM10:Oct 73:889:10038

Gnaedinger, Robert J., Jr.
See Robert G. Lukas, PES:72:I-1087

Gnirk, Paul F.
Rock Drilling with Pulsed High-Velocity Water Jets, with William H. Grams, RM14:73:589

Goble, George G.
Field Demonstration: Response of Instrumented Piles to Driving and Load Testing, with William D. Kovacs and Frank Rausche, PES:73:III-3
Dsc, with Frank Rausche, PES:73:III-227, of "Design and Performance of Deep Foundations", PES:73:II-111

See Frank Rausche, CO2:Sept 72:201:9188
See Frank Rausche, SM9:Sept 72:917:9220

Goda, Yoshimi
Dsc, with Tomotsuka Yoshimura, WW2:May 73:285:9694, of "Wave Defraction by Detached Breakwater", WW2:May 72:209:8869

Godden, William G.
Model Studies of Skew Multicell Girder Bridges, with Mohammad Aslam, EM1:Feb 73:201:9576
Structural Model Studies of Large Pipe Bifurcation, TE1:Feb 73:93:9549

Godfrey, Kneeland A., Jr.
Consulting Firms Tackle Salary Guidelines, CE:Aug 73:77
Land Application of Treated Sewage, CE:Sept 73:103
Pavement Joint Seals, CE:Mar 72:42
TR:138:127

Goedjen, Merle H.
Dsc, PP4:Oct 73:537:10040, of "The Civil Engineer of the Future - A Renaissance Man", PP1:Jan 73:9:9489

Goel, Subhash C.
Seismic Behavior of Multistory Braced Steel Frames, with Robert D. Hanson, Preprint No.1951, Apr 73
See Raj P. Gupta, ST7:July 72:1475:9038

Goldberg, John E.
Approximate Elastic Analysis, State-of-Art Report 2, TB:73:II-14-169
Buckling Formulas for Design, TB:73:II-16-581
Stability of Guyed Towers, with John T. Gaunt, ST4:Apr 73:741:9683
Dsc: Kurt G. Asmis, ST11:Nov 73:2331:10113; Anil K. Kar, ST11:Nov 73:2331:10113
Dsc, with Richard K. Keplar, ST4:Apr 72:945:8802, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453
See Mohammed H. Baluch, ST9:Sept 72:1957:9203
See Natarajan Annamalai, ST10:Oct 72:2235:9258

Goldbloom, Joseph
Summary Report of Questionnaire on Construction Inspection, by the Task Committee on Inspection of the Construction Division, CO2:Sept 72:219:9192
Errata: CO1:July 73:223:9822
TR:138:524

Golder, Hugh Q.
Dsc, SM10:Oct 73:900:10038, of "Comments on Conventional Design of Retaining Structures", SM2:Feb 73:181:9568

Goldsmith, Victor
See Joseph M. Colonell, HYB:Aug 73:131

Golze, Alfred R.
Electric Utility Problems in Meeting Urban Planning Requirements, UP2:Sept 73:193:10016
The Impact of Urban Planning on Electric Utilities, Preprint No.1903, Jan 73

Goodenough, Bertram W.
Dsc, CE:Dec 72:31, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Goodier, Leslie J.
Deepwater Ports for Superships, CE:Nov 73:45

Goodkind, Donald R.
Dsc, PP3:July 73:416:9824, of "The Civil Engineer of the Future - A Renaissance Man", PP1:Jan 73:9:9489

Goodkind, Michael N.
A Funny Thing Happened On The Way To The Forum, CE:Dec 73:79

Goodman, James R.
See Adam Al-Dabbagh, ST3:Mar 72:569:8784
See M. Daniel Vanderbilt, Preprint No.1953, Apr 73

Goodman, Richard E.
Duplication of Dilatancy in Analysis of Jointed Rocks, with Jacques Dubois, SM4:Apr 72:399:8853
Errata: SM2:Feb 73:224:9524
TR:138:274
On Model Studies for Tunnels in Jointed Rock, with Francois E. Heuze and Gilles J. Bureau, RM14:73:441

Goodpasture, David W.
See Edwin G. Burdette, ST3:Mar 73:335:9627

Goodspeed, Morley J.
Dsc, HY10:Oct 72:1879:9222, of "New Approach to Hydrologic Data Acquisition", HY12:Dec 71:1965:8578

Gopalacharyulu, S.
Cantilever Cylindrical Shells Under Assumed Wind Pressures, with D. J. Johns, EM5:Oct 73:943:10085

Gopaladrishnan, K.
Dsc, with John F. Kennedy, HY2:Feb 73:378:9523, of "Laboratory Study of Transport of Fine Sand", HY3:Mar 72:489:8765

Gopalakrichnan, T. C.
See Harihar Raman, WW2:May 73:290:9694

Gorczyca, Miroslaw
Construction Costs of Water Supply and Sewage Networks in Poland 1961-1970, SA6:Dec 72:987:9458
TR:138:580

Gordon, Bernard B.
Seismic Stability of Upper San Leandro Dam, with David J. Dayton and Khosrow Sadigh, Preprint No.2025, Apr 73

Gordon Melvin & Partners
Government Offices and Conference Center (Nairobi), TB:73:C-P-436

Gorzynski, James W.
See William A. Thornton, ST12:Dec 73:2502:10185

Goswami, Santosh R.
Dsc, SA6:Dec 72:1053:9393, of "Design and Economics of Joint Wastewater Treatment", SA1:Feb 72:153:8746
Dsc, SA6:Dec 72:1056:9393, of "Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division", SA2:Apr 72:299:8833
Dsc, EE1:Feb 73:95:9521, of "Manning's Coefficient for Smooth Pipes", SA2:Apr 72:353:8830
Dsc, EE1:Feb 73:99:9521, of "Hydraulic Treatment Efficiency of Waste Stabilization", SA2:Apr 72:407:8849

Gotaas, Harold B.
Design Optimization for Biological Filter Models, with William S. Galler, EE6:Dec 73:831:10191

Gottemoeller, Frederick
See Grant S. Anderson, CE:Sept 72:74

Gottlieb, Gerald L.
See Gyan C. Agarwal, Preprint No.2035, July 73

Gould, Bernard W.
Dsc, HY1:Jan 73:270:9459, of "Bias in Computed Flood Risk", HY3:Mar 72:415:8766

Gould, Charles L.
Pollution, Politics and Protest, PP1:Oct 71:23:8468
Dsc: Richard Reed Potts, PP3:July 72:466:9001
TR:138:39

Putting Pollution Problems In Perspective, CE:Aug 73:64
Dsc: Harold E. Weber, CE:Nov 73:22

Gould, James P.
Design of Temporary Retaining Structures for the Washington Subway System, PES:73:III-251

Gould, Phillip L.
Differential Settlement of Hyperbolic Cooling Towers, ST10:Oct 72:2207:9252
TR:138:487
See Subir K. Sen, TN: ST3:Mar 73:595:9629
See Subir K. Sen, Preprint No.2077, Oct 73

Govatos, George C.
Dsc, CE:Mar 73:75, on Best Shore Protection: Nature's Own Dunes, CE:Sept 72:66

Govil, Ashok K.
See Bharat L. Mehrotra, ST1:Jan 72:287:8665

Govindarajan, Rangachari
See J. Paul Tullis, HY3:Mar 73:417:9605

Gowda, Tagadur P. Halappa
Dsc, EE6:Dec 73:959:10180, of "Desorption and Retentivity of Filtering Materials", SA6:Dec 72: 937:9401

Goyal, Brij B.
Slender Concrete Columns Under Sustained Load, with Neil Jackson, ST11:Nov 71:2729:8544
Dsc: Jostein Hellesland and Roger Green, ST9: Sept 72:2122:9159; Robert F. Warner, ST9:Sept 72:2124:9159; Asko Sarja, ST11:Nov 72:2632: 9307
Clo: ST5:May 73:951:9693
TR:138:35

Goyle, Harry M.
See James D. Murff, TN: SM11:Nov 73:1033:10/48

Graber, S. David
See Thomas R. Camp, SA6:Dec 71:903:8605

Grace, John L., Jr.
See Forrest M. Holly, Jr., HY11:Nov 72:1921:9365

Graeub, Wm. Campbell
Impact of Environmental Controls on Highways, with Albert A. Grant and Robley Winfrey, TE2:May 72: 263:8906
TR:138:219

Graf, Edward D.
Dsc, with Harpal S. Arora, PES:73:III-105, of "Piping in Earth Dams of Dispersive Clay", PES: 72:I-589

Graf, Walter H.
Freeman Grant To Lehigh Professor, CE:Sept 73:113
See Sebastian W. Bauer, IR1:Mar 71:73:7987
See Stephen C. Ko, HY5:May 72:897:8920
See Millard P. Robinson, Jr., HY7:July 72:1221:9060
See Oner Yucel, HYB:Aug 73:55
See Farid Mansour, HY9:Sept 73:1627:9961

Graff, William J.
See Narsing M. Patel, Preprint No.1963, Apr 73

Graham, James
Dsc, SM10:Oct 73:10038, of "Analysis of Ultimate Loads of Shallow Foundations", SM1:Jan 73:45: 9480
See William James Neely, SM9:Sept 73:669:9980

Graham, Roland R., Jr.
Glossary of Terms Pertaining to Structural Steel Engineering and Design, Ad Hoc Committee on Nomenclature, Administrative Committee on Metals of the Structural Division, ST8:Aug 71: 2137:8322
Dsc: Maxwell G. Lay, ST2:Feb 72:536:8684
Clo: ST6:June 73:1311:9763
TR:137:951

Graham, Thomas A.
New York City Hacks Through Capital Construction Jungle, CE:Apr 72:60
TR:138:199

Gramolin, I.
See E. James White, TB:73:Ib-9-901

Grams, William H.
See Paul F. Gnirk, RM14:73:589

Grant, Albert A.
See Wm. Campbell Graeub, TE2:May 72:263:8906
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Grant, Joseph L.
How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal, PP2:Apr 73:159:9663
Dsc: Elmer K. Timby, PP2:Apr 73:166:9638

Grantham, George R.
Water Quality Simulation Model, with John C. Schaake, Jr. and Edwin E. Pyatt, SA5:Oct 71:569: 8429
Dsc: Pio S. Lombardo, SA2:Apr 72:468:8800; Ed A. McBean, SA3:June 72:603:8928; Nigel M.D. Green, SA4:Aug 72:669:9077
Clo: EE1:Feb 73:88:9521
TR:138:57

Grass, Luther B.
Restoring Subsurface Drain Performance, with Arnold J. MacKenzie, IR1:Mar 72:97:8759
TR:138:90

Grasser, Emil
Compressive Strength of Mortar Joints Between Unreinforced Precast Concrete Members, with F. Daschner, TB:73:III-21-290
Serviceability, TB:73:III-22-465

Gray, Charles S.
Standards in Great Britain, State-of-Art Report 4A, with Leslie V. Leech, TB:73:II-13-51

Gray, Donald H.
Engineering Properties of Compacted Fly Ash, with Yen-Kuang Lin, SM4:Apr 72:361:8840
Dsc: Dimtcho Evstatiev, SM2:Feb 73:221:9524
TR:138:253

Gray, Edward W., Jr.
Construction Pore Pressure Dissipation in Earth Dams, PES:73:III-295

Gray, K. E.
See H. Douglas Dahl, RM14:73:747

Gray, Paul
See Inder K. Sud, TE4:Nov 73:935:10174

Gray, Richard E.
Dsc, Focus On Environmental Geology -- A Collection Of Case Histories And Readings From Original Sources, CE:Aug 73:28

Greathouse, Daniel G.
See Robert M. Clark, SA6:Dec 72:897:9424

Green, A. C.
See Mark D. Sobsey, EE3:June 73:245:9778

Green, Nigel M.D.
Dsc, SA4:Aug 72:669:9077, of "Water Quality Simulation Model", SA5:Oct 71:569:8429

Green, Roger
See Jostein Hellesland, ST9:Sept 72:2122:9159

Greenberg, James A.
See James K. Mitchell, SM4:Apr 73:307:9678

Greenberg, Max E.
The Role of Contract and Specifications in Foundations, Preprint No.2074, Oct 73

Greene, William E., Jr.
Stochastic Models and Live Load Surveys, State-of-Art Report 2B, TB:73:Ib-5-35

Greenwald, Theodore W.
See Neal B.H. Benjamin, CO1:July 73:175:9888

Greenwood, Mark E.
See V. James Meyers, ST11:Nov 72:2381:9323

Gregg, John C.
Nitrate Removed at Water Treatment Plant, CE:Apr 73:45
  Dsc: Otto W. Steinhardt, CE:July 73:22

Gregory, Ross
Dsc, SA4:Aug 72:680:9077, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605

Gregory, William S.
See E. I. Onstott, EE6:Dec 73:897:10196

Greig, Robert A.
Behavior of a Curved Steel Box Beam Bridge, with William L. Armstrong, Preprint No.2017, Apr 73

Grenley, Dallas
Chemical Resistant Resurfacing Mortars for Industrial Floors and Ramps, with Lou Kuhlmann, Preprint No.2092, Oct 73

Greulich, Gunther
Dsc, SU2:Nov 72:237:9308, of "Status Report of Surveying and Mapping Division", SU2:Nov 71:267:8532

Gribaldo, Albert C.
The Civil Engineer in Appointed Public Positions, Preprint No.2015, Apr 73
The Civil Engineer in Appointed Public Positions, PP3:July 73:361:9880

Grierson, Donald E.
Collapse Load Analysis Using Linear Programming, with Graham M. L. Gladwell, ST5:May 71:1561:8127
  Dsc: Jack I. Nicholls and Clayton E. Lofthus, ST11:Nov 71:2769:8485; Erol Yarimci, ST1:Jan 72:372:8623; Geerhard Haaijer, ST2:Feb 72:516:8684; Egor P. Popov and James L. Tocher, ST11:Nov 72:2626:9307
  Clo: ST5:May 73:947:9693
  TR:137:935
Deformation Analysis of Elastic - Plastic Frames, ST10:Oct 72:2247:9288
  TR:138:499
See Saleh B. Abdel-Baset, ST11:Nov 73:2215:10128

Griffin, Charles W., Jr.
Dsc, CE:May 72:40, on Engineering and Today's Social Problems, CE:Mar 72:64

Griffin, Robert H.
Dsc, CE:Oct 73:26, on Ludington, Mich., Pumped Storage Project, CE:June 73:64

Griffith, Alvin R.
See Subhash C. Anand, EM5:Oct 73:927:10063

Grigalis & Associates
Crestline Apartments, TB:73:C-P-458

Grigg, Neil S.
Legal Constraints on Urban Water Systems, UP2:Sept 73:137:9986

Grimm, Clayford T.
See James T. Houston, CO1:July 73:5:9839

Grimm, Sergei N.
Dsc, PP4:Oct 72:726:9224, of "Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division", PP1:Oct 71:167:8480

Grinter, Linton E.
Dsc, ST9:Sept 72:2127:9159, of "Hardy Cross and the Rise of Numerical Methods", ST3:Mar 72:691:8762

Gronquist, Carl H.
Dsc, CE:Jan 73:52, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Grooms, Henry R.
Algorithm for Matrix Bandwidth Reduction, ST1:Jan 72:203:8636
  Dsc: Mark F. Nelson and Jorge Hildago, ST12:Dec 72:2820:9395
  Clo: ST6:June 73:1321:9763
  TR:138:88

Groves, Richard H.
Rapid Excavation With Explosives, with Robert L. LaFrenz, CE:Aug 72:60
  TR:138:380

Grubert, John P.
Numerical Computation of Stratified Nearly Horizontal Flows, with Michael B. Abbott, HY10:Oct 72:1847:9300
  Errata: HY3:Mar 73:551:9580
  TR:138:530
See Michael B. Abbott, ISSF:Aug 72:113

Gruendler, James D.
Barometric Leveling Analysis, with Frederick P. Thomack and James L. Clapp, SU1:July 72:93:9053
  Dsc: R. Robinson Rowe, SU1:Sept 73:136:9965
  TR:138:313

Gruner, Iosif
Shrinkage Effect of Structural Concrete Walls in Multi-Story Buildings, with Grigore Rotaru and Radu Frunza, TB:73:III-25-827

Grupenhoff, Betty L.
See Robert M. Clark, SA5:Oct 71:563:8403

Guha Majumdar, Sauren N.
See James G. MacGregor, ST11:Nov 72:2351:9351

Guinan, James W.
See Thomas E. Hoover, TE1:Feb 73:53:9518

Guitjens, J. C.
Hydraulic Modeling of Flow in Porous Media, Preprint No.1886, Jan 73

Gulliver, Eugene Allen
Engineer's Notebook: Preliminary Flow Profiles For Highway Engineers, CE:Dec 73:49

Gunderson, James W.
See James V. Hamel, TN: SM5:May 73:427:9703

Gunnerson, Charles G.
Debris Accumulation in Ancient and Modern Cities, EE3:June 73:229:9771

Gupta, Dinesh C.
See Raymond J. Krizek, SM12:Dec 72:1347:9421

Gupta, R. S.
Optimization of Circulating Water System, with Bruce R. Webber, PO1:May 73:235:9756

Gupta, Raj P.
Dynamic Analysis of Staggered Truss Framing System, with Subhash C. Goel, ST7:July 72:1475:9038
TR:138:352
See James C. Anderson, ST11:Nov 72:2523:9344

Gupta, Vulli L.
Information Content of Time-Variant Data, HY3:Mar 73:383:9615
Dsc: Marshall E. Moss, HY11:Nov 73:2165:10109
Streamflow Synthesis - A Case Study, with John W. Fordham, HY6:June 72:1049:8969
TR:138:336

Gurfinkel, German R.
Analysis and Design of Hyperbolic Cooling Towers, with Adolf Walser, PO1:June 72:133:8997
Dsc: Raphael F. Rish, PO1:May 73:259:9690; Frederick L. Moreadith and Garry J. Patterson, PO2:Nov 73:427:10111
TR:138:340
Behavior of Polygonal and Circular Ring Beams, with Arthur R. Robinson, ST6:June 73:1241:9800

Gurley, Paul C., Jr.
See Hugh G. McKay, III, PO1:May 73:001:9706

Gurney, T. R.
See John W. Fisher, TB:73:II-18-757

Gurpinar, Aybars
Design of Columns for Seismic Loads, with James T.P. Yao, ST9:Sept 73:1875:9978

Gusev, A. M.
See V. N. Anuchin, ISSF:Aug 72:527

Gute, William L.
Design and Construction of the Sitka Harbor Bridge, Preprint No.1957, Apr 73
First Vehicular Cable-Stayed Bridge in the U.S., CE: Nov 73:50

Gutzwiller, Martin J.
See F. Wayne Klaiber, ST6:June 73:1287:9818
See Wayne C. Kroenke, ST7:July 73:1371:9835

Guven, Oktay
See Cesar Farell, HY7:July 73:1167:9823

Guy, Harold P.
Some Sediment Aspects of Tropical Storm Agnes, with Terry L. Clayton, TN: HY9:Sept 73:1653:10024
Urban Sedimentation in Perspective, with D. Earl Jones, Jr., HY12:Dec 72:2099:9420
TR:138:574

Guy, Louis L., Jr.
See Robert A. Canham, CE:Feb 72:40

Guymon, Gary L.
Finite Element Solution for General Fluid Motion, HY6:June 73:913:9789
Errata: HY11:Nov 73:2166:10109

Gvozdev, Alexei A.
Effect of Creep on Load Capacity of Slender Compressed Elements, State-of-Art Report 2, with E. A. Chistiakov, TB:73:III-23-537

Gwynn, J. David
See G. V. Eckenfelder, CE:May 73:45

Gyuk, Imre
Transient Seepage Flow Toward Two Parallel Drains, with Gabor M. Karadi, EM1:Feb 72:211:8737
TR:138:138

See Raymond J. Krizek, IR2:June 73:169:9807

Haack, Harvey O.
Games for Simulating Urban Development Process, with George L. Peterson, UP2:Dec 71:149:8568
Dsc: V. Setty Pendakur and Henry Ropertz, UP1: Mar 73:121:9584

Haagsma, Sjoerd C.
Offshore Pipeline Burial, TN: TE4:Nov 73:980:10117

Haaijer, Geerhard
Autostress Design of Steel Structures, Preprint No.1930, Apr 73
Dsc, ST2:Feb 72:516:8684, of "Collapse Load Analysis Using Linear Programming", ST5:May 71:1561:8127

Haan, Charles T.
Adequacy of Hydrologic Records for Parameter Estimation, HY8:Aug 72:1387:9128
TR:138:430

Habibagahi, Karim
Dsc, SM11:Nov 73:1027:10112, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515

Hadjian, Asadour H.
Earthquake Forces on Equipment in Nuclear Power Plants, PO3:July 71:649:8240
Dsc: Melvin W. Jackson, PO1:June 72:171:8927
Clo: PO1:May 73:9690
TR:137:989
Dsc, PO2:Nov 73:431:10111, of "Interaction of Soil and Power Plants in Earthquakes", PO2:Oct 72:273:9242

Hagan, Robert M.
Ecological Impacts of Water Projects in California, with Edwin B. Roberts, IR1:Mar 72:25:8780
Dsc: M. Riazul Hasan, IR4:Dec 72:610:9392
Clo: IR2:June 73:185:9761
TR:138:198
Water Deficits -Irrigation Design and Programming, with J. Ian Stewart, IR2:June 72:215:8955
Dsc: John L. Merriam, IR2:June 73:188:9761
TR:138:318
See J. Ian Stewart, IR4:Dec 73:421:10229

Hagerty, D. Joseph
Consolidation Effects Around Driven Piles, with John E. Garlanger, PES:72:I-1207
Dsc: M. Appendino, PES:73:III-241
Heave and Lateral Movements Due to Pile Driving, with Ralph B. Peck, SM11:Nov 71:1513:8497
Dsc: Ibrahim H. Sulaiman, SM4:Apr 72:441:8801; E. Montford Fucik, SM9:Sept 72:972:9158; Gary Brierley and David Thompson, SM11:Nov 72:1273:9306
Clo: SM4:Apr 73:344:9639
TR:138:73
Rock Property Changes Under Air Pollutant Action, with C. Robert Ullrich, RM14:73:127

Hahs, Charles Arthur
Design Parameters for Water Jet Tunneling Machines, RM14:73:555

Haimes, Yacov Y.
See James W. Foley, EE3:June 73:253:9795

Haimson, Bezalel C.
Earthquake Related Stresses at Rangely, Colorado, RM14:73:689
Tensile and Compressive Cyclic Stresses in Rock -- Abstract, with C. M. Kim and T. M. Tharp, RM14:73:748

Haith, Douglas A.
Optimal Control of Nitrogen Losses from Land Disposal Areas, EE6:Dec 73:923:10200

Hajj, Hatim M.
American Engineering Unions, PP2:Apr 73:213:9657

Hakalehto, Kaarlo O.
Energy Required to Break Rock by Percussive Drilling, RM14:73:613

Halappa Gowda, Tagadur P.
Dsc, EE1:Feb 73:101:9521, of "Herbicidal Control of Aquatic Plants", SA2:Apr 72:397:8851
See Richard G. Warnock, HY12:Dec 72:2231:9391

Hale, Max
See David Brenchley, CE:Mar 73:83

Haliburton, T. Allan
Subgrade Moisture Under Oklahoma Highways, with Donald R. Snethen, Larry K. Shaw and B. Dan Marks, TE2:May 72:325:8870
TR:138:114
See B. Dan Marks, SM4:Apr 72:327:8827

Hall, Dennis C.
See James E. Biesecker, HYB:Aug 73:417

Hall, Michael J.
Dsc, HY7:July 73:1173:9823, of "Conceptual Hydrologic Models for Urbanizing Basins", HY7: July 72:1205:9024

Hall, Warren A.
Systems Analysis in Irrigation and Drainage, HY4: Apr 73:567:9659

Halpern, Richard C.
Control of the Construction Process, State-of-Art Report 2, TB:73:Ia-4-689

Halsey, James F.
Shock and Impulse Loadings as Related to Seismic Design, Preprint No.1962, Apr 73

Halton, Daniel B.
Dsc, CE:May 72:40, on Engineering and Today's Social Problems, CE:Mar 72:64

Hamel, James V.
Failure of Colluvial Slope, with Norman K. Flint, SM2:Feb 72:167:8731
Errata: SM3:Mar 73:296:9582
TR:138:189
Shear Strength of Homestake Slimes Tailings, with James W. Gunderson, TN: SM5:May 73:427:9703
Dsc, SM12:Dec 72:1428:9394, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM6:June 72:557:8944

Hamil, B.
See S. Sriruang, RM14:73:750

Hamill, Frank A.
See Irving Joseph, HY7:July 72:1117:9014

Hamilton, Calvin S.
The City Planning Environment and Tall Buildings, Preprint No.2044, July 73

Hamlin, William G.
Hamlin Leaves ASCE Staff For New Job, CE:July 73:95

Hammad, Hammad Y.
River Bed Degradation After Closure of Dams, HY4: Apr 72:591:8814
Dsc: Donald C. Bondurant, HY11:Nov 72:2051: 9305; Kikkeri L.V. Ramu, HY3:Mar 73:541: 9580
TR:138:220

Hammerstrom, Carl
The Environment and a Two-Billion Dollar Property, SU1:July 72:51:9065
Errata: SU1:Sept 73:140:9965
TR:138:393

Hammond, A. A.
See J. W.S. de Graft-Johnson, SM11:Nov 72:1245: 9375

Hammond, G. A.
Dsc, CE:June 73:22, on Our Priceless Heritage, Our Youth, CE:Mar 73:76

Hancock, Lawrence F.
See Dan M. Fults, HY9:Sept 72:1497:9176

Hand, Frank R.
Nonlinear Layered Analysis of RC Plates and Shells, with David A. Pecknold and William C. Schnobrich, ST7:July 73:1491:9860

Haney, Dan G.
Community Values in Transport Network Evaluation, with George E. Klein, TE4:Nov 72:823:9319
TR:138:449

Hanna, Albert W.G.
Transmission Towers Under Torsional Loads, with Richard G. Redwood, PO1:May 73:105:9701
Errata: PO2:Nov 73:437:10111

Hanna, Thomas H.
Anchor Behavior in Sand, with Robert Sparks and Mehmet Yilmaz, SM11:Nov 72:1187:9338
Dsc: George G. Meyerhof, SM5:May 73:414:9692
TR:138:521

Hanninen, C. C.
Thermechanized Mining System at White Pine, with J. W. Sipola, RM14:73:623

Hannon, Bruce M.
Job Impact of Alternatives to Corps of Engineers Projects, with Roger H. Bezdek, PP4:Oct 73:521: 10080

Hansell, W. C.
Load Factor (Limit States) Design, Summary Report, with Ivan M. Viest, TB:73:II-19-899

Hansen, Arthur G.
The Continuing Challenge of Engineering Education, PP3:July 72:351:9037
Dsc: John Cowan, PP1:Jan 73:131:9460
TR:138:395

Hansen, Eggert
Lagrangian Characteristics of Surface Turbulence, HY7:July 72:1255:9008
TR:138:346

Hansen, Jorn S.
Static and Dynamic Stability of an Imperfect Beam, with John Roorda, EM2:Apr 73:271:9647

Hansen, L. Pilegaard
See Axel Efsen, TB:73:III-21-265

Hansen, Robert J.
Human Response to Wind-Induced Motion of Buildings, with John W. Reed and Erik H. Vanmarcke, ST7:July 73:1589:9868
See John W. Reed, TB:73:II-17-687
See Kanu S. Patel, ST4:Apr 73:621:9643
See Jose M. Roesset, ST4:Apr 73:637:9644

Hansen, Robert L.
See Jack C. Schuster, PO1:June 72:1:8959

Hanson, Norman W.
Dsc, ST1:Jan 73:225:9462, of "Beam-Column Subassemblages Under Repeated Loading", ST5: May 72:1137:8915

Hanson, Robert D.
Aseismic Design of Staggered Truss Buildings, with Glen V. Berg, Preprint No.1970, Apr 73
See Chang-Kuei Sun, EM1:Feb 73:183:9565
See Subhash C. Goel, Preprint No.1951, Apr 73

See William H. Townsend, Preprint No.2010, Apr 73
See Amin M. Almuti, ST6:June 73:1273:9817

Happ, Stafford C.
Dsc, HY10:Oct 73:1890:10037, of "Predicting Sediment Yield in Western United States", HY12: Dec 72:2073:9432

Haque, M. Ikramul
See Albert G. Mercer, HY3:Mar 73:441:9618

Harbaugh, Terence E.
See Danny L. Fread, HY1:Jan 73:139:9466

Harbert, Richard R.
Engineering For People, PP3:July 72:387:9058
TR:138:441

Harbo, Samuel J., Jr.
See Frederick C. Dean, EE3:June 73:385:9758

Hardie, Michael G.
See Ju-Chang Huang, SA4:Aug 71:467:8318

Hardin, Bobby O.
Shear Modulus and Damping in Soils: Measurement and Parameter Effects, with Vincent P. Drnevich, SM6:June 72:603:8977
TR:138:328
Shear Modulus and Damping in Soils: Design Equations and Curves, with Vincent P. Drnevich, SM7:July 72:667:9006
TR:138:354

Harding, Samuel Thomas
Multiple Mine Openings Subjected to Seismic Loading, RM14:73:739

Hardison, Clayton H.
Bias in Computed Flood Risk, with Marshall E. Jennings, HY3:Mar 72:415:8766
Dsc: Bernard W. Gould, HY1:Jan 73:270:9459
Clo: HY7:July 73:1157:9823
TR:138:188
Potential United States Water-Supply Development, IR3:Sept 72:479:9214
Dsc: Vit Klemes, IR3:Sept 73:406:9962
TR:138:528

Hardy, H. Reginald, Jr.
See Yoginder P. Chugh, RM14:73:339

Hardy, M. P.
Hybrid Computer Analysis of Seam Extraction -- Abstract, with S. L. Crouch and Charles Fairhurst, RM14:73:749

Hargrove, Stanley H.
See Earl O. Heady, HY10:Oct 73:1795:10074

Hari, V. Mura
Dsc, HY3:Mar 73:550:9580, of "Effects of Inflow Condition on Hydraulic Jump", HY8:Aug 72:1367: 9088

Harich, Henry W.
Reducing Ice Formation at Navigation Dams, WW3: Aug 72:343:9114
TR:138:387

Hariharan, M.
Dsc, with M. P. Kapoor, ST7:July 73:1661:9826, of "Stiffness-Analysis of Cable-Stayed Bridges", ST7: July 72:1605:9036

Harkness, Richard C.
Communications Substitutes for Intra-Urban Travel, TE3:Aug 72:585:9100
TR:138:307

Harlan, Thomas S.
Polyethylene Pipe Slipped into Defective Sanitary Sewer, with William B. Allman, CE:June 73:78

Harleman, Donald R.F.
Thermal Stratification due to Heated Discharges, ISSF:Aug 72:35
See Wayne C. Huber, HY4:Apr 72:645:8839
See Mark Markofsky, HY5:May 73:729:9730
See Patrick J. Ryan, HYB:Aug 73:191

Harley, Brandan M.
See John C. Schaake, Jr., Preprint No.2103, Oct 73

Harmon, Thomas G.
See Kanu S. Patel, ST4:Apr 73:621:9643
See Jose M. Roesset, ST4:Apr 73:637:9644

Harmon, William C.
Dsc, HY1:Jan 72:291:8620, of "Bed Load Transportation in Alluvial Channels", HY5:May 71: 653:8091
See Donald A. Parsons, HY4:Apr 73:687:9637

Harms, Leland L.
Dsc, EE4:Aug 73:563:9893, of "Agricultural Runoff-Characteristics and Control", SA6:Dec 72:909:9406

Harpel, K. R.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-525

Harr, Milton E.
See Fredy Romani, SM11:Nov 72:1209:9349

Harrington, Joseph J.
See Ralf G. Cembrowicz, HY10:Oct 72:1890:9222
See Ralf G. Cembrowicz, HY10:Oct 72:1890:9222
See Ralf G. Cembrowicz, HY3:Mar 73:431:9606

Harris, Ernest C.
Longest Concrete-Arch Bridge in North America, with John A. Talbott, CE:July 72:49
Clo: CE:Oct 72:66
TR:138:329

Harris, Harry G.
Inelastic Behavior Of R/C Cylindrical Shells, with Richard N. White, ST7:July 72:1633:9074
TR:138:376

Harris, R. W.F.
The Resilient Mounting of RHM Centre (Tower Block), with R. W. Turner, TB:73:III-24-711

Harris, Robert B.
See John R. Baldwin, CO2:Nov 71:177:8501

Harrison, Carter H., Jr.
Upgrading Student Membership, PP1:Jan 73:119: 9508
Dsc: Paul C. Hassler, PP3:July 73:418:9824; Thomas C. Ferrara and Nathan D. Meeks, PP4: Oct 73:543:10040
Dsc, CE:May 73:20

Harrison, W. Jill
Elastic Theory Applied to Reinforced Earth, with Charles M. Gerrard, SM12:Dec 72:1325:9417
TR:138:575

Harrison & Abramovitz
McGraw-Hill, TB:73:C-P-430
Standard Oil of N.J., TB:73:C-P-431
United States Steel Corporation Building, TB:73:C-P-432

Hart, Gary C.
Eigenvalue Uncertainty in Stressed Structures, EM3: June 73:481:9780
See Timothy K. Hasselman, EM3:June 72:561:8958

Hart, James L.
Swampy Site Turned into Prize-Winner, CE:June 73: 82

Hart, William E.
Distribution Channels with Multiple Outlets, with John Borelli, IR2:June 72:267:8976
Errata: IR2:June 73:191:9761
TR:138:356

Hartenstein, Alan Gene
See Sudershan Malhotra, SA5:Oct 71:629:8432

Hartman, Richard A.
Dsc, with Joseph R. Reed, HY9:Sept 72:1729:9156, of "Hydraulic Jump Assisted by Cross-Jet", HY12: Dec 71:2037:8614

Hartmann, Alois J.
See Richard J. McCaffrey, ST6:June 72:1309:8988

Hartung, Friedrich K.
Dsc, with Klausotto Csallner, HY1:Jan 72:278:8620, of "Efficiency of Hydraulic Jump", HY3:Mar 71: 409:7994

Harung, Harald S.
General Failure Analysis of Skeletal Plane Frames, with Malcolm A. Millar, ST6:June 73:1051:9776

Harvey, James M.
See James Rhodes, ST8:Aug 71:2119:8327

Harza, Richard D.
Trends in Offshore Airports, TE4:Nov 72:985:9343
Errata: TE4:Nov 73:959:10110
TR:138:497
Dsc, CE:July 73:28, on Muskegon Sprays Sewage Effluents on Land, CE:May 73:49

Hasan, M. Riazul
Dsc, IR4:Dec 72:610:9392, of "Ecological Impacts of Water Projects in California", IR1:Mar 72:25:8780

Hashemi, Hadi T.
Effect of Seepage Stream on Artificial Soil Freezing, with Cedomir M. Sliepcevich, SM3:Mar 73:267: 9630
Dsc: Stuart W. Churchill, SM12:Dec 73:1175: 10184

Hashish, Mahmoud G.
See Salman H. Abu-Sitta, ST9:Sept 73:1823:9989

Hassani, Jay J.
Very Large Graving Docks, Preprint No.1938, Apr 73

Hasselman, Timothy K.
Linear Response to Nonstationary Random Excitation, EM3:June 72:519:8961
TR:138:278
Modal Analysis of Random Structural Systems, with Gary C. Hart, EM3:June 72:561:8958
TR:138:273

Hassler, Paul C.
Dsc, PP3:July 73:418:9824, of "Upgrading Student Membership", PP1:Jan 73:119:9508

Haswell, Charles K.
Pumped Storage and Tidal Power in Energy Systems, with Stephen W. Huntington, Thomas L. Shaw, Geoffrey R. Thorpe and Ian J. Westwood, PO2:Oct 72:201:9297
TR:138:603

Hatfield, Frank J.
Automated Formulation of Condition Equations, TN: SU1:Sept 73:151:10017

Hatheway, Allen W.
See Richard B. Howell, 1973

Hatt, Fritz
See Richard M. Barker, RM14:73:247

Haugen, Edward B.
See Paul H. Wirshing, EM6:Dec 73:1165:10223

Haupt, Harold F.
See Edward R. Burroughs, Jr., IR1:Mar 72:1:8770

Haupt, Wolfgang A.
Dsc, SM2:Feb 73:224:9524, of "In Situ Shear Wave Velocity by Cross-Hole Method", SM5:May 72: 443:8904

Hauptman, Martin
See Vincent G. Terenzio, SA5:Oct 72:789:9225

Hauskins, John B., Jr.
A Kinematic Sound Screen: A Cost-Effective Solution to Highway Noise Abatement, Preprint No.1961, Apr 73

Hawkes, T. Wallace
Transportation Planning and the Environment, TE3: Aug 73:499:9949

Hawkins, Richard H.
Improved Prediction of Storm Runoff in Mountain Watersheds, TN: IR4:Dec 73:519:10188
Dsc, HY10:Oct 72:1885:9222, of "Two-Distribution Method for Flood Frequency Analysis", HY1:Jan 72:29:8639

Hayakawa, Norio
Dsc, with John F. Ripken, HY9:Sept 72:1728:9156, of "Choking and Supercavitating Valves", HY12: Dec 71:1931:8593
See John F. Ripken, HY1:Jan 72:239:8678

Hayden, Robert P.
See Anthony M. Di Gioia, Preprint No.2116, Oct 73

Haydl, Helmut M.
Collapse of Clamped Variable Thickness Circular Plates, with Archibald N. Sherbourne, TN: EM6: Dec 73:1309:10187

Haynes, Harvey H.
Cylindrical Concrete Hulls Under Hydrostatic Loading, with Robert J. Ross and Norman D. Albertsen, ST6:June 72:1291:8963
Errata: ST4:Apr 73:795:9640
TR:138:294

Hays, Almond J., Jr.
Optimal Water Quality Management for Houston Ship Channel, with Earnest F. Gloyna, SA1:Feb 72: 195:8715
Dsc: William Whipple, Jr., SA6:Dec 72:1050:9393
Clo: EE5:Oct 73:743:10035
TR:138:200

Hays, Clifford O., Jr.
Nonlinear Discrete Element Analysis of Frames, with Hudson Matlock, ST10:Oct 73:2011:10091
Dsc, ST9:Sept 72:2125:9159, of "Tangent Stiffness Method for Biaxial Bending", ST1:Jan 72:153:8637

Heady, Earl O.
Agricultural Water Allocation, Land Use, and Policy, with Howard C. Madsen, Kenneth J. Nicol and Stanley H. Hargrove, HY10:Oct 73:1795:10074

Healy, Kent A.
Prefabricated Filter-Fin for Subsurface Drains, with Richard P. Long, IR4:Dec 72:543:9422
Dsc: Robert L. McFall, IR2:June 73:199:9761
TR:138:594
Dsc, with Clarence W. Welti, SM11:Nov 72:1275: 9306, of "Expansion of Cavities in Infinite Soil Mass", SM3:Mar 72:265:8790

Hearon, William M.
See Blair T. Bower, EE1:Feb 73:1:9543

Heathington, Kenneth W.
Systems Approach and the Civil Engineer, with R. Brian Bonton, PP1:Oct 71:65:8457
Dsc: Thomas C. Kavanagh, PP1:Oct 71:75:8408; Edward A. Abdun-Nur, PP2:Apr 72:289:8818; Jagat N. Sharma, PP4:Oct 72:723:9224
TR:138:10

Hecker, George E.
On Modeling Wind-Induced Water Currents, with Glenn A. Yale, HYB:Aug 73:335
See L. C. Neale, ISSF:Aug 72:399

Hedley, William J.
Hedley Receives Hoover Medal, CE:Dec 73:76

Heiberg, Sigurd
See Anwar E.Z. Wissa, SM10:Oct 71:1393:8447

Heidebrecht, Arthur C.
Approximate Analysis of Open-Section Shear Walls Subject to Torsional Loading, with Bryan Stafford Smith, ST12:Dec 73:2355:10234
Approximate Analysis of Tall Wall-Frame Structures, with Bryan Stafford Smith, ST2:Feb 73:199:9550
Dsc: Alexander Coull, ST11:Nov 73:2326:10113; Riko Rosman, ST12:Dec 73:2501:10185

Heifitz, Joseph H.
Dynamic Response of Nonlinear Media at Large Strains, with Carl J. Costantino, EM6:Dec 72:1511:9451
TR:138:603

Heilman, William L.
See James D. Calvert, PO1:June 72:93:8981

Heiman, John L.
Deflections of Lightweight Reinforced Concrete Beams, TB:73:III-25-811
See Frank A. Blakey, TB:73:III-25-775

Heinemann, Herman G.
Dsc, with David L. Rausch, HY9:Sept 71:1555:8345, of "Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual", HY12:Dec 70:2417:7781

Heinen, Richard
Pine Valley Creek Bridge -- Use of Cantilever Construction, Preprint No.1981, Apr 73

Heins, Conrad P., Jr.
Composite Beams in Torsion, with John T.C. Kuo, ST5:May 72:1105:8921
TR:138:275
Dead Load Design Of Curved Bridges, with E. L. Murphy, Preprint No.1924, Apr 73
Multicell Curved Girder Model Studies, with Bijan P. Bonakdarpour and Lansford C. Bell, ST4:Apr 72:831:8835
Dsc: A. Rajaraman, ST4:Apr 73:791:9640
Clo: ST10:Oct 73:2207:10039
TR:138:210
Orthotropic Bridge Floor Beam Design, with Peter G. Perry, Preprint No.1925, Apr 73
See Henry W.L. Lee, ST4:Apr 71:1143:8045
See Chai Hong Yoo, ST4:Apr 72:899:8848
See Francis A. Murad, ST4:Apr 72:915:8855
See Peter G. Perry, ST11:Nov 72:2491:9326
See Donald R. Evick, ST12:Dec 72:2769:9453

Heins, Robert W.
See Robert G. Lundquist, RM14:73:329

Heintzleman, Walter G.
Public Affairs and Administrative Involvement, PP1:Jan 73:47:9509

Helfinstine, John D.
Yielding of Fiber Reinforced Tresca Material, with Richard H. Lance, EM4:Aug 72:849:9132
TR:138:389

Helfinstine, Robert A.
High-Speed Train Simulation Using Hydrodynamics, with Charles Dalton, EM2:Apr 72:357:8804
TR:138:162

Heller, Laszlo
See Paul Rogers, CE:Oct 72:56

Heller, Lyman W.
Seismic Effects on an Earth Dam from an Explosion, Preprint No.1950, Apr 73
Seismic Effects on Earth Dam from Explosion, TN: SM11:Nov 73:1038:10/48

Hellesland, Jostein
Dsc, with Roger Green, ST9:Sept 72:2122:9159, of "Slender Concrete Columns Under Sustained Load", ST11:Nov 71:2729:8544

Helm, James C.
See Guy L. Curry, HY12:Dec 73:2353:10246

Helms, Billy P.
Selecting Solid Waste Disposal Facilities, with Robert M. Clark, SA4:Aug 71:443:8280
Dsc: Melvin W. Jackson, SA1:Feb 72:266:8682; Jon C. Liebman, SA1:Feb 72:267:8682; Masaru Tanaka, SA1:Feb 72:269:8682; Keith J. Roberts, SA2:Apr 72:456:8800
Clo: SA6:Dec 72:1040:9393
TR:138:4
See Robert M. Clark, SA1:Feb 72:71:8720

Henderson, John M.
Water Pollution - Facts and Fantasies, SA3:June 72:529:8966
Errata: EE5:Oct 73:745:10035
TR:138:390

Henderson, William
Aesthetics of Tall Buildings, TB:73:Ia-1-256

Hendry, Arnold W.
Masonry Structures, Theme Report, TB:73:III-27-957

Henry, Hugh B.
Federal Experience in TOPICS, TE3:Aug 72:509:9097
TR:138:292

Henry, Robert F.
Simulation of Long Waves in Branching Waterways, HY4:Apr 72:609:8831
Errata: HY2:Feb 73:381:9523
TR:138:224

Hentrich - Petschnigg & Partner
Standard Bank Centre (Johannesburg S.A.), TB:73:C-P-446
Thyssenhaus, TB:73:C-P-448
Unileverhaus, TB:73:C-P-450

Herbert, Charles F.
ASCE Member Tests Pipeline, CE:Nov 73:85

Herbich, John B.
Supercritical Flow in Rectangular Expansions, with Peter Walsh, HY9:Sept 72:1691:9216
Dsc: Chesley J. Posey, HY8:Aug 73:1278:9895
TR:138:497

Herington, John R.
See Ian K. Lee, SM6:June 72:625:8999
See Ian K. Lee, SM9:Sept 72:973:9158

Hermann, Edward R.
See Ronald D. Neufeld, EE6:Dec 73:966:10180

Hermann, Leonard R.
See Stevens T.K. Chan, HY6:June 73:959:9787

Heronemus, William E.
Alternatives to the Heating and Evaporation of Groundwater While Still Satisfying the U.S. Energy Appetite, Preprint No.1909, Jan 73

Herrenkohl, Roy C.
Social Psychological Factors, Density, in Tall Buildings, Preprint No.2066, Oct 73
Social-Psychological Implications of Tall Building Planning and Design, State-of-Art Report 1, TB:73:C-ACI9-139

Herrera, Ismael
Dsc, with Jacobo Bielak, EM5:Oct 73:1097:10041, of "Variational Formulation of Dynamics of Fluid-Saturated Porous Elastic Solids", EM4:Aug 72:947:9152

Hertzendorf, Martin S.
Pneumatic Barrier and Beach Pollution, with Joseph V. Fiore, Herbert E. Klei and I. J. Kopelman, SA2:Apr 72:379:8821
TR:138:304

Hertzka & Knowles
100 Pine Street, TB:73:C-P-394

Heunisch, Michael
See Gert Konig, TB:73:III-23-613

Heuze, Francois E.
See Richard E. Goodman, RM14:73:441

Hibbard, William R.
Subassemblage Technique for Asymmetric Structures, with Peter F. Adams, ST11:Nov 73:2259:10132

Hickok, Eugene A.
Flood-Control Plan for Minnesota Watershed, CE:Apr 73:85

Higashi, Yoichi
Reinforced Concrete Beam-Column Joints, with Yoshimasa Owada, TB:73:III-21-259
Stiffness and Its Influence on Dynamic Behavior, State-of-Art Report 2, with Toshikazu Takeda, TB:73:III-24-655

Higgins, George R.
Positive Points on Electric Power, PP1:Jan 72:65:8666
TR:138:204

Higgins, Theodore R.
Structural Design of Tall Steel Buildings, Guide to Steel Designations, Preface, TB:73:II-1

Higonnet, Bernard T.
Dsc, TE1:Feb 72:188:9526, of "Benefit Measurements of Highway Electronic Route Guidance", TE1:Feb 72:51:8742

Hildago, Jorge
See Mark F. Nelson, ST12:Dec 72:2820:9395

Hill, Raymond A.
Dsc, HY3:Mar 73:536:9580, of "Present and Future Salinity of Colorado River", HY3:Mar 72:503:8769

Hills, David K.
Hydraulically Ventilated Underground Filter, with Ray B. Krone, SA6:Dec 71:851:8596
Dsc: Thiruvenkatachari Viraraghavan, SA5:Oct 72:798:9225
Clo: EE3:June 73:377:9758
TR:138:128

Hilsdorf, Hubert K.
Masonry Materials and Their Physical Properties, State-of-Art Report 2, TB:73:III-27-981

Hilton, J. I.
See B. J. Wallace, SM10:Oct 72:1081:9273

Hilts, David E.
See Stanley D. Wilson, TE3:Aug 72:563:9101

Hindley, Peter D.
Evaluating Water Surface Heat Exchange Coefficients, with Russell M. Miner, HY8:Aug 72:1411:9118
Dsc: Edward Silberman, HY4:Apr 73:699:9637
Clo: HY10:Oct 73:1887:10037
TR:138:421

Hines, Frank Matthews
Memoir of, TR:138:627

Hines, Virginia M.
Tunnel Vision or Ecological View, IR3:Sept 71:397:8368
Dsc: Melvin W. Jackson, IR1:Mar 72:172:8750; Mohammad Akram Gill, IR2:June 72:331:8926; Robert L. McFall, IR2:June 72:333:8926
TR:138:28

Hirschfeld, Ronald C.
See Herbert H. Einstein, SM3:Mar 73:229:9610

Hirshberg, Charles I.
See Krishnaswamingar Keshavan, EE5:Oct 73:569:10045

Hirst, Eric
Buoyant Jets with Three-Dimensional Trajectories, HY11:Nov 72:1999:9378
TR:138:563
Energy-Intensiveness of Transportation, TE1:Feb 73:111:9558
Dsc: Richard A. Lill, TE4:Nov 73:967:10110

Hisada, Toshihiko
Loading and Response Criteria and Code Requirements, State-of-Art Report 7, TB:73:Ib-6-267

Hisatoku, Toshiharu
Mixed and Composite Concrete and Steel Systems, State-of-Art Report 6, with Fujio Nishikawa, TB:73:Ia-3-501

Hitchcock, Woodrow W.
See Thomas E. Hoover, TE1:Feb 73:53:9518

Hoban, John F.
Dsc, PP1:Jan 73:126:9460, of "The Civil Engineer in the Multidisciplinary Design Team", PP2:Apr 72:221:8826

Hobbs, M. Floyd
See Mark D. Sobsey, EE3:June 73:245:9778

Hoeg, Kaare
Finite Element Analysis of Strain-Softening Clay, SM1:Jan 72:43:8650
Dsc: Kwan Y. Lo and C. F. Lee, SM9:Sept 72:981:9158
Clo: SM12:Dec 73:1167:10184
TR:138:141
See Thomas L. Holzer, TN: SM1:Jan 73:283:9505

Hoel, Lester A.
Bus Transit, CE:Mar 73:79

Hoey, William F.
Dsc, CE:Jan 72:62, on Point Pleasant Bridge Collapse Mechanism Analyzed, CE:July 71:61

Hoffman, David P.
See Robert E. Barry, PO1:June 72:117:8985

Hoffman, John E.
See August C. Mueller, HYB:Aug 73:113

Hoffmeister, John F., III
Optimizing the Supply of Inland Water Transport, with Richard de Neufville, WW3:Aug 73:293:9926

Hofstra, Warren E.
See James E. Biesecker, HYB:Aug 73:417

Hogan, Brian R.
See James W. McPhillips, PP2:Apr 72:181:8797

Hognestad, Eivind
See Ben C. Gerwick, Jr., CE:Aug 73:81

Holburt, Myron B.
Present and Future Salinity of Colorado River, with Vernon E. Valentine, HY3:Mar 72:503:8769
Dsc: Raymond A. Hill, HY3:Mar 73:536:9580
Clo: HY3:Mar 73:538:9580
TR:138:192

Holland, Arthur B.
Watershed Activities in the Northeast, Preprint No.1889, Jan 73

Holland, C.V. John
Dsc, CE:Sept 72:78, on Poor Structural Design Brings West Gate Bridge Failure, CE:June 72:47

Holland, Eugene P.
Horizontal Effects - Length Changes Due to Shrinkage and Temperature: Expansion, Construction and Control Joints - in Structural Slabs, State-of-Art Report 5, TB:73:III-25-805

Holler, Albert G., Jr.
Dsc, SA4:Aug 72:678:9077, of "Aeration System for Large Navigable Rivers", SA6:Dec 71:883:8601

Holley, Edward R.
Field Tests on Transverse Mixing in Rivers, with Gerrit Abraham, HY12:Dec 73:2313:10241
Dsc, HY6:June 72:1089:8925, of "Dispersion in Natural Streams", HY11:Nov 71:1867:8540
See Thomas Micka, TN: EE6:Dec 73:971:10186

Holley, Michel
Architecture of Tall Buildings: Integration in European Cities, State-of-Art Report 2, TB:73:Ia-1-77

Holley, Myle J., Jr.
See Richard N. White, ST8:Aug 72:1835:9145

Hollingshead, Albert B.
Sediment Transport Measurements in Gravel River, HY11:Nov 71:1817:8521
Dsc: Frederick G. Charlton, HY8:Aug 72:1461:9076; Robert T. Milhous, HY11:Nov 72:2043:9305
Clo: HY5:May 73:843:9689
TR:138:47

Holloway, Frank M.
See Norman Ashford, TE3:Aug 72:715:9124
See Norman Ashford, TE4:Nov 72:799:9362

Holloway, Milton L.
Application of Simulation Techniques to Small Project Analyses, with Lial F. Tischler, Preprint No.1907, Jan 73

Holly, Forrest M., Jr.
Model Study of Dense Jet in Flowing Fluid, with John L. Grace, Jr., HY11:Nov 72:1921:9365
Dsc: E. J. List and Albert B. Pincince, HY10:Oct 73:1888:10037
TR:138:552

Holman, Kermit L.
See E. I. Onstott, EE6:Dec 73:897:10196

Holtz, Robert D.
Long-Term Loading Tests at Ska-Edeby, Sweden, with Bengt B. Broms, PES:72:I-435
Errata: PES:73:III-73
Soil Movements Below a Test Embankment, with Gote Lindskog, PES:72:I-273
Clo: PES:73:III-71
Dsc, with Jan Wennerstrand, PES:73:III-59, of "Embankments on Soft Ground", PES:73:II-1

Holtz, Wesley G.
See D. Earl Jones, Jr., CE:Aug 73:49

Holzenbein, Helmut
See Stefan Soretz, TB:73:III-24-701

Holzer, Siegfried M.
Stability and Boundedness Via Liapunov's Direct Method, EM5:Oct 72:1273:9280
TR:138:520

Holzer, Thomas L.
Effect of Seismic Loading on Undrained Clay Creep, with Kaare Hoeg, TN: SM1:Jan 73:283:9505

Hom, Leonard W.
Kinetics of Chlorine Disinfection in an Ecosystem, SA1:Feb 72:183:8727
Dsc: Malay Chaudhuri, SA6:Dec 72:1051:9393
Clo: EE5:Oct 73:743:10035
TR:138:231

Hood, Clifford C.
Flood Channel Doubles as Golf Course, CE:May 72:49
Dsc: Nirmalendu Maitra, CE:Sept 72:61
TR:138:238

Hooper, Ira
Commentary on Structural Standards, Summary Report, TB:73:II-13-147

Hoopes, John A.
See Walter C. Mih, HY7:July 72:1275:9050

Hoover, Thomas E.
Computer Simulation of Subway Environment, with Woodrow W. Hitchcock, William D Kennedy and James W. Guinan, TE1:Feb 73:53:9518
Dsc: George R. Beetle, Thomas B. Furmaniak and Ghebreiesus Yiesghen, TE4:Nov 73:966:10110

Hopfinger, E. J.
Development of a Stratified Turbulent Shear Flow, ISSF:Aug 72:555

Hoppe, David L.
See Raymond G. Jacquot, TN: EM3:June 73:612:9765

Horn, Merlin E.
Estimating Soil Permeability Rates, IR2:June 71:263:8169
Clo: ST1:Jan 73:201:9462
TR:137:978

Horne, M. R.
Plastic Design of Unbraced Sway Frames, State-of-Art Report 4, TB:73:II-15-311

Horonjeff, Robert
Projections of the U.S. Airline Fleet in the Early 1980's, with Richard Coykendall, ASC73:Mar 73:1

Horton, Frank E.
Behavioral Models in Transportation Planning, TE2:May 72:411:8908
TR:138:234

Horvat, E.
Effects of Foundations on Adjacent Structures, State-of-Art Report 3, with Cornelius van der Veen, TB:73:Ia-11-905

Hoskins, E. R.
Development of Deep Hole Stress Measurement Device, with E. H. Oshier, RM14:73:299
See J. E. Russel, RM14:73:1

Hotes, Frederick L.
Dsc, HY10:Oct 72:1889:9222, of "Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations", HY2:Feb 72:335:8729

Houk, Ivan Edgar
Memoir of, TR:138:628

Hoult, David P.
See Ralph H. Cross, WW1:Feb 72:25:8719

Housner, George W.
Earthquake Ground Motion, State-of-Art Report I, TB:73:Ib-6-159

Houston, James T.
Field Quality Control Test for Wetting Brick in Masonry Construction, with Clayford T. Grimm, CO1:July 73:5:9839

Hovland, H. John
Dsc, SM8:Aug 72:832:9078, of "Stress Field Under Slipping Rigid Wheel", SM1:Jan 72:13:8625

Howe, Robert T.
How Land Surveying Is Being Modernized, SU1:July 72:17:9049
TR:138:287

Howell, Richard B.
Awards Given At California AMF Cconference, with Allen W. Hatheway, 1973

Howells, David A.
Dsc, ST4:Apr 72:944:8802, of "Earthquake Design Formula Considering Local Soil Conditions", ST9: Sept 71:2383:8399
Dsc, CO1:July 73:216:9822, of "Vehicular Tunnels in Rock - Direction for Development", CO2:Sept 72: 235:9173
Dsc, SM10:Oct 73:899:10038, of "Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle", SM1:Jan 73:111:9511

Hrennikoff, Alexander
Dsc, ST8:Aug 72:1877:9079, of "Analysis of Curved Folded Plate Structures", ST10:Oct 71:2459:8434

Hsia, Anthony
See Robert L. Stoy, HY9:Sept 73:1585:9999

Hsieh, Tsuying
See Shi-I Pai, ISSF:Aug 72:641

Hsiung, Kou-Ying
Filtrability Study on Secondary Effluent Filtration, SA3:June 72:505:8965
Dsc: Gerald W. Foess, EE1:Feb 73:104:9521; Ali R. Javaheri, EE1:Feb 73:106:9521; Arun K. Deb, EE2:Apr 73:159:9635
TR:138:384

Hsu, Cheng-Tzu
Structural Concrete-Biaxial Bending and Compression, with M. Saeed Mirza, TN: ST2:Feb 73:285:9545

Hsu, Sheng-Tien
Design of Cooling Tower Return Channel for TVA's Browns Ferry Nuclear Plant, with Rex A. Elder, HYB:Aug 73:177
See John F. Kennedy, HY4:Apr 73:605:9664

Hu, Walter W.
Hydraulic Elements for USBR Standard Horseshoe Tunnel, TN: TE4:Nov 73:973:10117

Huang, Joseph S.
Steel Beam-To-Column Moment Connections, with Wai F. Chen, Preprint No.1920, Apr 73

Huang, Ju-Chang
Treatment of Refinery Waste by Physicochemical Processes, with Michael G. Hardie, SA4:Aug 71: 467:8318
Dsc: Alonzo W. Lawrence, SA3:June 72:600:8928
Clo: SA6:Dec 72:1042:9393
TR:138:14

Huang, Lin Y.
Temperature Loads, State-of-Art Report 6, TB:73:Ib-5-97

Huang, Norden E.
See Chi C. Tung, WW3:Aug 73:341:9931

Huang, Ti
Dsc, ST2:Feb 72:540:8684, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71: 2203:8353

Huang, Yang H.
Critical Tensile Strain in Asphalt Pavements, TE3: Aug 73:553:9925
Dsc, TE1:Feb 73:185:9526, of "Advanced Analysis of Rigid Pavements", TE1:Feb 72:37:8699

Hubbell, David W.
See Herbert H. Stevens, Jr., HYB:Aug 73:279

Huber, Wayne C.
Temperature Prediction in Stratified Reservoirs, with Donald R.F. Harleman and Patrick J. Ryan, HY4: Apr 72:645:8839
Dsc: Yu-Leuk Choi, HY3:Mar 73:544:9580
Clo: HY11:Nov 73:2127:10109
TR:138:234

Huck, Peter J.
See Madan M. Singh, RM14:73:35

Huck, Robert W.
See James Allen, CE:Apr 72:77

Hucks, Robert T., Jr.
Design of PVC Water-Distribution Pipe, CE:June 72: 70
Dsc: Robert E. Morris, Jr., CE:Dec 72:39; K. A. Ramsay, CE:Mar 73:51
TR:138:298

Hudlow, Michael D.
Use of Digital Radar Data in Operational Hydrology, Preprint No.1911, Jan 73

Hudoba, John
See Robert M. Korol, ST5:May 72:1007:8872

Hudson, John A.
Studying Time-Dependent Effects in Failed Rock, with Edwin T. Brown, RM14:73:25
See Edwin T. Brown, EM5:Oct 72:1310:9221

Hudson, William D.
Computerizing Pipeline Design, TE1:Feb 73:73:9547

Hudson, William Ronald
Parameters of Rational Airfield Pavement Design System, with Thomas W. Kennedy, TE2:May 73: 235:9722
See Harvey J. Treybig, TE4:Nov 71:681:8543

Huggins, Mark W.
See Akhilesh C. Agarwal, ST4:Apr 73:655:9653

Hughes, Barry P.
Temperature Rises in Low-Heat Cement Concrete, ST12:Dec 71:2807:8588
Dsc: Jerome M. Raphael, ST8:Aug 72:1881:9079
Clo: ST3:Mar 73:576:9583
TR:138:43

Hughes, George M.
Scientific and Administrative Criteria for Shallow Waste Disposal, with Keros Cartwright, CE:Mar 72:70
TR:138:153

Hughes, Trevor C.
Municipal Water Planning--Mixed Integer Approach, with Calvin G. Clyde, HY11:Nov 73:2079:10131

Hughes, William C.
Simulation of Salt Cedar Evapotranspiration, IR4:Dec 72:533:9415
TR:138:570

Hulett, Harold P.
Transthetics, PO1:June 72:103:8989
TR:138:313

Hulman, Lewis G.
Delaware River Basin Modeling, with David K. Ericson, HY1:Jan 72:105:8668
TR:138:132

Hultman, Bengt G.
Dsc, EE4:Aug 73:559:9893, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153

Humpheson, C.
See Roland W. Lewis, SM8:Aug 73:603:9912

Humphries, Richard W.
See Janusz R. Rydzewski, PO1:May 73:165:9710

Hung, Tin-Kan
Spiral Flows in Finite Rotating Annular Tubes, EM1:Feb 73:13:9533

Huning, Richard C.
Dsc, CE:Apr 72:59, on Anti-Technology--The New Myth, CE:Jan 72:68

Hunt, Bruce W.
Dispersion From Pit in Uniform Seepage, HY1:Jan 73:13:9474
Dsc: Eric. J. Wolanski, HY7:July 73:1198:9823
Dispersion in Nonuniform Seepage, HY2:Feb 73:293:9553
Seepage from Shallow Open Channel, HY5:May 72:779:8875
TR:138:252
Seepage From Shallow Reservoir, HY1:Jan 73:23:9476
Dsc, EM5:Oct 73:1101:10041, of "Impulsive Hydrodynamics of Submerged Rigid Bodies", EM1:Feb 73:99:9563

Huntington, Stephen W.
See Charles K. Haswell, PO2:Oct 72:201:9297

Hurley, E. E. Mac
Memoir of, TR:138:629

Hurley, Patrick A.
Colorado Pilot Project: Design Hydrometeorology, HY5:May 72:811:8901
TR:138:291

Hurst, Michael D.
Four Win ASCE Zone Scholarships, CE:Sept 73:112

Hurty, Walter C.
See Stephen E. Johnson, EM5:Oct 72:1105:9281

Hurwitz, Raphael
Dsc, SA5:Oct 72:793:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825:8575

Husain, Syed I.
Dsc, with Phil M. Ferguson, ST12:Dec 73:2495:10185, of "Cracking and Bond Slip in Concrete Beams", ST12:Dec 72:2663:9423

Hussain, Mushtaq
Dsc, SU1:July 72:123:9004, of "Solar Astronavigation in High Latitudes", SU1:May 71:27:8139

Hustrulid, William
A Simple Stiff Machine for Testing Rock in Compression, with Franklin Robinson, RM14:73:61

Hutchings, Robert
Dsc, ST11:Nov 73:2313:10113, of "Finite Deformation of Biaxially Loaded Columns", ST12:Dec 72:2647:9407

Hutchinson, Bruce G.
Economic Criterion for Highway Capacity Determination, TE3:Aug 72:465:9120
TR:138:377
Programming of Regional Highway Investments, TE3:Aug 72:493:9087
TR:138:269
Transport Analysis of Regional Development Plans, UP1:Mar 73:57:9592

Hvidt, Marion T.
Financial Considerations of Effective Project Management Techniques, EPMT:73:71

Hyer, Paul V.
Repeatability in Estuarine Hydraulic Model, HY4:Apr 72:631:8832
Dsc: Hugo B. Fischer, HY12:Dec 72:2245:9391; Pazhayannur P. Vaidyaraman and Ganakaloty Puttaramaiah, HY7:July 73:1160:9823
TR:138:229

Hyler, W. S.
See Walter K. Boyd, ST7:July 73:1571:9866

Ianni, Ernest T.
Dsc, CE:Sept 72:61, on Engineering and Today's Social Problems, CE:Mar 72:64

Idriss, Izzat M.
See H. Bolton Seed, SM9:Sept 71:1249:8371
See H. Bolton Seed, SM8:Aug 72:787:9108

Iffland, Jerome S.B.
Design for Stability in High Rise Buildings, State-of-Art Report 2, TB:73:II-16-445
Floor-Ceiling System Features Precast Concrete Units, CE:Apr 72:52
TR:138:186

Iguti, Fernando
See Fernando Venancio-Filho, ST7:July 73:1660:9826
See Fernando Venancio-Filho, TN: ST9:Sept 73:1965:9968

Illston, J. M.
See L. J. Parrott, Preprint No.1935, Apr 73

Imai, K.
See H. Ito, HY9:Sept 73:1353:10022

Imberger, Jorg
See E J. List, HY9:Sept 73:1461:9992

Imoto, Yoshihiro
See Hiroshi Yoshida, EM2:Apr 73:343:9666

Ingersoll, Alfred C.
The Nature of Continuing Education, PP1:Jan 72:113:8660
TR:138:144

Ingles, O. G.
Dsc, PES:73:III-111, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
Dsc, PES:73:III-119, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Inoue, Kazuya
See Yoshiaki Iwasa, ISSF:Aug 72:237

Irwin, A. W.
See Alexander Coull, ST6:June 72:1223:8936

Irwin, George
See Richard Roberts, Preprint No.1990, Apr 73

Isenberg, Jeremy
Dynamic Response of Structures to Combined Effects of Ground Shock and Air Blast, with Li-chih Lee and Mihran S. Agbabian, Preprint No.1989, Apr 73
Interaction of Soil and Power Plants in Earthquakes, with Samy A. Adham, PO2:Oct 72:273:9242
  Dsc: Chang Chen, Garry J. Patterson and Don K. Croneberger, PO2:Nov 73:429:10111; Asadour H. Hadjian, PO2:Nov 73:431:10111; Nien-Chien Tsai, PO2:Nov 73:434:10111
  TR:138:419
Response of Structures to Combined Blast Effects, with Li-chih Lee and Mihran S. Agbabian, TE4: Nov 73:887:10166
See Jamshid Ghaboussi, SM10:Oct 73:833:10095

Ishizaki, Hatsuo
Research Review - Asia & Australia, State-of-Art Report 1, TB:73:Ib-7-365

Ito, H.
Energy Losses at 90° Pipe Junctions, with K. Imai, HY9:Sept 73:1353:10022

Ito, Takeshi
Mixing Method of Stratified Water Layer in Reservoirs, ISSF:Aug 72:569

Ivanyi, Miklos
Dsc, ST12:Dec 73:2492:10185, of "Buckling of Inelastic I-Beams Under Uniform Moment", ST11: Nov 72:2551:9339

Ives, Kenneth J.
Theory of Flocculation for Continuous Flow System, with Anand G. Bhole, EE1:Feb 73:17:9540
  Errata: EE6:Dec 73:964:10180
Dsc, EE5:Oct 73:746:10035, of "Desorption and Retentivity of Filtering Materials", SA6:Dec 72: 937:9401

Ivey, Don L.
See Hayes E. Ross, Jr., TE2:May 72:285:8914

Iwan, Wilfred D.
Galloping Oscillations of Hysteretic Structures, EM6: Dec 73:1129:10231

Iwasa, Yoshiaki
Thermal Stratification of Water in a Reservoir Connected with a Pumped Storage Reservoir, with Kazuya Inoue, ISSF:Aug 72:237

Iwasaki, Toshio
Turbulence in the Weakly Mixing Zone of the Interface, with Tetsuo Abe, ISSF:Aug 72:251

Iyengar, S. Hal
Bundled-Tube Structure for Sears Tower, CE:Nov 72: 71
  TR:138:509
Preliminary Design and Optimization of Steel Building Systems, State-of-Art Report 3, TB:73:II-14-185
Stability of Overall Structural Systems, TB:73:II-16-564

Izumi, Masanori
Impact and Dynamic Load Effects, State-of-Art Report 4, TB:73:Ib-5-77

Jaakson, Reiner
Reservoir Operation for Recreation Usability, HY10: Oct 73:1813:10058

Jackson, Melvin W.
Badly Needed: Changes in Building Codes for Houses, CE:Apr 72:55
  Dsc: Christopher G. Tyson, CE:Sept 72:65
  TR:138:190
Dsc, SA1:Feb 72:266:8682, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280
Dsc, SA1:Feb 72:271:8682, of "Can Engineering Forecasters Effect Water Law?", SA4:Aug 71:479: 8329
Dsc, ST2:Feb 72:541:8684, of "Earthquake Design Formula Considering Local Soil Conditions", ST9: Sept 71:2383:8399
Dsc, IR1:Mar 72:172:8750, of "Tunnel Vision or Ecological View", IR3:Sept 71:397:8368
Dsc, SM3:Mar 72:309:8751, of "Incinerator-Residue-Fill Site Investigation", SM10:Oct 71:1431:8451
Dsc, PO1:June 72:171:8927, of "Earthquake Forces on Equipment in Nuclear Power Plants", PO3:July 71:649:8240

Jackson, Neil
Concrete Quality, TB:73:Ib-9-896
Cracking and Control, TB:73:III-24-723
Effect of Creep in Slender Columns, TB:73:III-23-625
Torsion/Flexure Interaction, TB:73:III-22-463
See Brij B. Goyal, ST11:Nov 71:2729:8544

Jacobson, Cecil Baltzar
Benefits to Environment Glen Canyon to Hoover Dams, PO2:Nov 73:395:10146

Jacquot, Raymond G.
Nonstationary Random Column Buckling Problem, EM5:Oct 72:1173:9263
  TR:138:501
Optimal Random Vibration Absorbers, with David L. Hoppe, TN: EM3:June 73:612:9765

Jagannadha Rao, M. V.
Dsc, with Nagar S. Lakshmana Rao, IR4:Dec 71:656: 8553, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987
See Nagar S. Lakshmana Rao, HY2:Feb 73:259:9542

Jain, Kamlesh K.
Coagulation of Iron Oxide with Alum, with Kun Li and Robert R. Rothfus, EE4:Aug 73:411:9945

Jain, Subhash C.
See Cesar Farell, HY7:July 73:1167:9823

Jalal, Kazi F.
See Stephen V. Allison, Preprint No.1892, Jan 73

James, David F.
Wind Load on Cylinder With Spanwise Protrusion, with Quan-Si Truong, EM6:Dec 72:1573:9416
  TR:138:543

James, L. Douglas
Role of Economics in Planning Flood Plain Land Use, HY6:June 72:981:8935
  Dsc: Emmett M. Laursen, HY1:Jan 73:280:9459
  Clo: HY7:July 73:1165:9823
  TR:138:314
Surveys Required to Design Nonstructural Measures, Preprint No.1881, Jan 73
Surveys Required to Design Nonstructural Measures, HY10:Oct 73:1823:10062
See J. Michael Osborne, TE3:Aug 73:637:9933

James, Wesley P.
See David J. Barr, Preprint No.2072, Oct 73

James, William
Approximately Linear Low-Pass Wave Filters, WW1: Feb 73:59:9534

Jamiolkowski, Michele B.
Dsc, with S. Marchetti, PES:73:III-237, of "Lateral Load Tests on Full-Scale Pile Groups", PES:72:I-1105
See Michele Belloni, TB:73:Ia-11-990

Janes, Henry W.
Densification of Sand for Drydock by Terra-Probe, SM6:June 73:451:9821

Jangle, Anil
See Stanley Serota, CE:Jan 72:73

Janiszewski, Tadeusz
Dsc, ST2:Nov 72:335:8926, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825:8606

Jank, Bruce E.
Substrate Removal Mechanism of Trickling Filters, with W. Ronald Drynan, EE3:June 73:187:9769

Janney, Jack R.
Structural Failures, STF:73:11

Jansen, Robert B.
Edmonston Pumping Plant: Nation's Mightiest, CE:Oct 72:67
TR:138:465
See William R. Gianelli, CE:June 72:78

Jaske, Robert T.
Dsc, HY11:Nov 73:10109, of "Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division", HY2:Feb 73:337:9571

Javaheri, Ali R.
Dsc, EE1:Feb 73:106:9521, of "Filtrability Study on Secondary Effluent Filtration", SA3:June 72:505:8965
Dsc, EE3:June 73:390:9758, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153

Jaworski, Leon
Our Priceless Heritage, Our Youth, CE:Mar 73:76
Dsc: G. A. Hammond, CE:June 73:22; Darrell J. Turner, CE:June 73:22; T. P. Limber, CE:Aug 73:40

Jebens, Harold J.
Enhanced Phosphorus Removal in Trickling Filters, with William C. Boyle, SA3:June 72:547:8974
Errata: EE2:Apr 73:161:9635
TR:138:399

Jen, Yuan
Dsc, with Lars Skjelbreia, HY11:Nov 73:2135:10109, of "Nonlinear Wave Forces on a Vertical Cylinder", HY11:Nov 72:1895:9333

Jenkins, David
See Denny S. Parker, SA1:Feb 72:79:8702

Jenkinson, Paul M.
Lateral Stability of Beam and Deck Structure, with John J. Zahn, ST3:Mar 72:599:8786
TR:138:181

Jennings, Alan
Static Analysis of Suspension Bridges, with John E. Mairs, ST11:Nov 72:2433:9321
TR:138:508

Jennings, Marshall E.
See Clayton H. Hardison, HY3:Mar 72:415:8766
See Daniel P. Bauer, HYB:Aug 73:167

Jennings, Paul C.
See Richard B. Fallgren, Preprint No.2014, Apr 73

Jensen, Eugene T.
The Engineer and the New Environment, PP3:July 72:303:9032
TR:138:381
Dsc, CE:July 72:69, on Design Standards for Wastewater Treatment Systems, CE:Feb 72:40

Jensen, Marvin E.
See James L. Wright, IR2:June 72:193:8940

Jensen, Rolf
Means of Fire Fighting and Safety Devices in Tall Buildings, State-of-Art Report 3, TB:73:Ib-8-523

Jeppson, Roland W.
Inverse Solution to Three-Dimensional Flows, EM4:Aug 72:789:9110
TR:138:374

Jerus, George R.
Plumbing and Fire Protection, State-of-Art Report 3, TB:73:Ia-2-327

Jessup, Walter E.
Swimming Again in Lake Washington, CE:Mar 72:60
TR:138:139

Jezequel, Jean-Francois
See Francois Baguelin, SM11:Nov 72:1129:9377

Jilani, A. K.M.
See A. L. Swami, HY11:Nov 73:2152:10109

Jirsa, James O.
Cast-in-Place Joints for Tall Concrete Buildings, State-of-Art Report 3, TB:73:III-21-191

Jobin, William R.
Environmental Control of Bilharzia Snails in Small Reservoirs, IR3:Sept 73:365:9994

Jobling, Graham A.
Physical Model Study of Border-Strip Irrigation, with A. Keith Turner, IR4:Dec 73:493:10195

Jobson, Harvey E.
The Dissipation of Excess Heat from Water Systems, PO1:May 73:089:9702
See Daniel P. Bauer, HYB:Aug 73:167
See Baum K. Lee, Preprint No.2106, Oct 73

Jofriet, Jan C.
Short Term Deflection of Concrete Flat Plates, ST1:Jan 73:167:9488
Errata: ST11:Nov 73:2325:10113

John, Wayne H.
Penstock Construction at Grand Coulee Dam, CE:Dec 73:52

Johns, D. J.
See S. Gopalacharyulu, EM5:Oct 73:943:10085

Johns, Kenneth C.
Simultaneous Buckling in Symmetric Structural Systems, EM4:Aug 72:835:9106
TR:138:369

Johnson, Allen E.
See Stephen J. Burges, IR2:June 73:143:9785

Johnson, Allen T.
Meeting the Challenge of Winter Construction, CE:Nov 72:68
TR:138:507

Johnson, Carl B.
See Karl V. Steinbrugge, Preprint No.2009, Apr 73
See Karl V. Steinbrugge, PP4:Oct 73:513:10105

Johnson, Charles M.
See Robert J. McCaffery, Preprint No.1978, Apr 73

Johnson, Clifton W.
Winter Storm and Flood Analyses, Northwest Interior, with Robin P. McArthur, HYB:Aug 73:359

Johnson, E. Russell
Memoir of, TR:138:630

Johnson, Franklin B.
Structural Strength of Hollow Clay Tile Assemblages, with John H. Matthys, ST2:Feb 73:259:9577

Johnson, Frederick C.
Planning PRT Systems for Urban Renewal Projects, TE3:Aug 73:585:9909

Johnson, Gerald W.
Solar Astronavigation in High Latitudes, with James L. Clapp, SU1:May 71:27:8139
  Dsc: Mushtaq Hussain, SU1:July 72:123:9004
  Clo: SU1:Sept 73:133:9965
  TR:138:29

Johnson, J. Donald
Bromine and Bromamine Disinfection Chemistry, with Ragnar Overby, SA5:Oct 71:617:8425
  Dsc: George C. White, SA4:Aug 72:666:9077
  Clo: EE3:June 73:371:9758
  TR:138:49

Johnson, James W.
Efficient Fabrication of Glued-Laminated Timbers, ST3:Mar 73:431:9623

Johnson, Joe W.
Characteristics and Behavior of Pacific Coast Tidal Inlets, WW3:Aug 73:325:9927

Johnson, John E.
Research on an Extremely Rapid Setting High Strength Concrete, with Donald O. Baehr and Robert J. Wenk, Preprint No.2097, Oct 73
See Jun W. Lee, EM6:Dec 73:1283:10207

Johnson, Keith A.
Meteorology and Hydrology of Rapid City Flood, HYB:Aug 73:451

Johnson, Lawrence P., Jr.
Memoir of, TR:138:630

Johnson, R. Paul
See J. Jay Climenhaga, ST6:June 72:1239:8954

Johnson, Sandra
Dsc, CE:July 73:25, on Are More Women Needed in Civil Engineering, CE:May 73:54

Johnson, Sidney M.
Dead, Live and Construction Loads, State-of-Art Report 3, TB:73:Ib-5-59

Johnson, Stanley J.
Dsc, Soil Stabilization, Principles And Practices, CE: July 73:30

Johnson, Stephen E.
Convergence in Modal Synthesis, with Walter C. Hurty, EM5:Oct 72:1105:9281
  TR:138:527

Johnson, Walter K.
Process Kinetics for Denitrification, SA4:Aug 72:623: 9153
  Dsc: Edward D. Schroeder, EE1:Feb 73:107:9521; H. David Stensel, EE3:June 73:388:9758; Ali R. Javaheri, EE3:June 73:390:9758; Bengt G. Hultman, EE4:Aug 73:559:9893
  TR:138:448

Johnson, Wayne A.
Dsc, with Mohammad Hanif Chaudhry, PO1:June 72:179:8 , of "Graphical and Computer Analysis of Tailrace Surges", PO3:July 71:697:8261

Johnson, William K.
Assessing Social Consequences of Water Deficiencies, IR4:Dec 71:547:8566
  Dsc: William A. Fischer, IR3:Sept 72:505:9157
  Clo: IR1:Mar 73:111:9581
  TR:138:60
Environmental Litigation: Lessons From the Courts, CE:Jan 72:55
  Dsc: Melvin C. Sueltenfuss, CE:June 72:50; Stanley E. Degler, CE:May 72:48
  Clo: CE:June 72:50
  TR:138:31
Use of Systems Analysis in Water Resources Planning, HY9:Sept 72:1543:9174
  TR:138:446
See Thomas C. Ferrara, UP2:Dec 71:179:8585

Johnston, Bruce G.
Meaning of Structural Design, TB:73:II-19-894

Johnston, Carl Albert
Memoir of, TR:138:631

Johnston, Roy G.
Drift Criteria, State-of-Art Report 2, TB:73:II-17-635

Johnston, Sterling B.
Site Consistent Rock Motion, PO2:Nov 73:365:10140

Johnston, Warren E.
See Verne H. Scott, HYB:Aug 73:409

Johnstone, Don
Dsc, CE:Apr 72:57, on Anti-Technology--The New Myth, CE:Jan 72:68

Joline, Everett S.
Computer-Aided Design of Airport System Plans, Preprint No.2058, July 73

Jonatowski, John J.
Dsc, ST3:Mar 72:770:8752, of "Analysis of Cable-Stayed Girder Bridges", ST5:May 71:1481:8116

Jones, Barclay G.
Linearized Non-Stokesian Drag in Turbulent Flow, with Raymond J. Ostensen and Charles C. Meek, TN: EM1:Feb 73:233:9528

Jones, D. Barrie
See David J. Naylor, SM12:Dec 73:1170:10184

Jones, D. Earl, Jr.
Expansive Soils -- the Hidden Disaster, with Wesley G. Holtz, CE:Aug 73:49
Dsc, CE:Dec 73:32, on Lime Slurry Pressure Injection Tames Expansive Clays, CE:Oct 73:42
See Harold P. Guy, HY12:Dec 72:2099:9420

Jones, Holway R.
See George C. Bestor, CPB:72:

Jones, Jack C.
See Richard C. Acker, SM10:Oct 72:995:9303

Jones, Jack M.
Toronto Converts Decaying Waterfront into Parks, CE:Sept 73:74

Jones, Kay H.
Research Needs in Environmental Engineering in Water Resources, Water Treatment, Environmental Sanitation, and Air Pollution, by the Environmental Engineering Research Committee of the Environmental Engineering Division, EE6:Dec 73: 801:10198
Synthesis Approach to Determining Research Needs in Civil Engineering; Air Pollution a Test Case, by the Environmental Engineering Research Committee of the Environmental Engineering Division, EE4:Aug 73:461:9936

Jones, Michael P.
Friction Overlay Improves Runway Skid Resistance, CE:Mar 73:45
  Dsc: A. G. Delong, CE:June 73:24

Jones, Ordie R.
See Vladimir S. Aronovici, IR1:Mar 72:65:8760

Jones, Rembert F., Jr.
Shell and Plate Analysis by Finite Elements, ST5: May 73:889:9744

Jones, S. E.
See Don J. Wood, HY1:Jan 73:167:9500

Jones, William F.
See James D. Roberts, Preprint No.1943, Apr 73

Jonsson, Erik
Goals for Dallas Program, CE:Sept 72:58
Dsc: Mark Jordan, CE:May 73:45
Clo: CE:Nov 72:67
TR:138:394

Jordan, Mark
Dsc, CE:May 73:45, on Goals for Dallas Program, CE:Sept 72:58

Jordan, Michael A.
Dsc, CE:Aug 73:24, on Lateral Support of Concrete Block Walls, CE:May 73:74

Joseph, Irving
Start-up Pressures in Short Pump Discharge Lines, with Frank A. Hamill, HY7:July 72:1117:9014
Dsc: Ray S. Quick, HY5:May 73:853:9689; Edmond E. Chapus and Jacques L. Dubouchet, HY8:Aug 73:1270:9895
TR:138:359

Josey, J. Larry
See Oktay Ural, PP1:Jan 73:91:9502

Joyner, Harvey R.
Regional-Local Conflicts in Transportation Planning, TE3:Aug 72:515:9136
TR:138:394

Juaseekoon, Manu
See Donald R. Drew, WW3:Aug 72:393:9131

Judge, Raymond F.A.
See Frederick R. Martin, TE4:Nov 73:785:10154

Jumikis, Alfreds R.
Vertical Stress Chart for Rigid Circular Foundations, TN: SM12:Dec 73:1196:10189

Kahle, Richard L.
See Ralph Stone, SA5:Oct 72:731:9250

Kahn & Jacobs
Finland House, TB:73:C-P-350
One Astor Plaza, TB:73:C-P-348

Kajfasz, Stanislaw
External Blast, TB:73:Ib-8-717
Interaction Approach in Poland, TB:73:Ia-12-1149

Kalinske, Anton A.
Dsc, HY11:Nov 72:2049:9305, of "Laboratory Study of Transport of Fine Sand", HY3:Mar 72:489:8765

Kalkwijk, J. P. Th.
Cavitation in Horizontal Pipelines Due to Water Hammer, with C. Kranenburg, HY10:Oct 71:1585: 8440
Dsc: C. B. Vreugdenhil and A. H. De Vries, HY9: Sept 72:1723:9156; Trichinopoly K. Ramakrishnan, HY10:Oct 72:1876:9222
Clo: HY3:Mar 73:529:9580
TR:138:32

Kallina, Carl T.
Responsibility of Gas Utilities for Pipeline Safety, TE2:May 72:341:8883
Errata: TE2:May 73:425:9691
TR:138:148

Kally, Elisha
Dsc, HY5:May 73:857:9689, of "Hydraulic Network Analysis Using Linear Theory", HY7:July 72:1157: 9031

Kamei, Toshio
See Sansei Miki, TB:73:Ib-9-817

Kamperman, George W.
See James E. Shahan, TE2:May 73:307:9726

Kamphuis, J. William
Short Wave Models with Fixed Bed Boundary Layer, WW4:Nov 73:471:10122

Kanaan, George E.
Recreational Demand at Lakes and Reservoirs, with Harold J. Day, TN: CE2:Sept 73:265:9969

Kanafani, Adib K.
Location Model for Parking Facilities, TE1:Feb 72: 117:8705
Errata: TE3:Aug 72:737:9080
TR:138:54

Kao, Kwan H.
See Barry J. Vickery, ST1:Jan 72:21:8635

Kao, Teh-Yuh
Hydraulic Jump Assisted by Cross-Jet, HY12:Dec 71: 2037:8614
Dsc: Richard A. Hartman and Joseph R. Reed, HY9:Sept 72:1729:9156; Edward H. Wilson, HY12:Dec 72:2232:9391
Clo: HY7:July 73:1151:9823
TR:138:78
Overflow Spillway Energy Dissipation by Jet-Assisted Hydraulic Jump, with Daniel L Shoemaker, HYB: Aug 73:349

Kao, Timothy W.
Time-Dependent Behavior of Stratified Flow in a Channel Towards a Line Sink, with H. P. Pao and S. N. Wei, ISSF:Aug 72:581

Kapoor, M. P.
See M. Hariharan, ST7:July 73:1661:9826

Kapur, Kanwar K.
Generation of Seismic Floor Response Spectra for Equipment Design, with Lawrence C. Shao, SDNPF:Dec 73:29
See Nathan M. Newmark, PO2:Nov 73:287:10142

Kar, Anil K.
Convergence in Highly Nonlinear Cable Net Problems, with Clyde Okazaki, ST3:Mar 73:321: 9601
Design of Containment Base Mats, SDNPF:Dec 73: 323
Dsc, ST11:Nov 73:2327:10113, of "Large Displacement Analysis of Thin Plates", ST3:Mar 73:349:9593
Dsc, ST11:Nov 73:2330:10113, of "Concrete T-Beams Subject to Combined Loading", ST4:Apr 73: 687:9655
Dsc, ST11:Nov 73:2331:10113, of "Stability of Guyed Towers", ST4:Apr 73:741:9683

Kar, Jitendra N.
Strength of Fiber-Reinforced Concrete, with Anil K. Pal, ST5:May 72:1053:8909
Dsc: Ganpat S. Pandit, ST4:Apr 73:793:9640
Errata: ST9:Sept 72:2134:9159
Clo: ST11:Nov 73:2309:10113
TR:138:253

Kar, Lakshmidhar
See Parambakatoor R. Perumalswami, EM5:Oct 73: 965:10060

Karadi, Gabor M.
See Antonio Santos-Moreno, EM1:Feb 72:141:8738
See Imre Gyuk, EM1:Feb 72:211:8737

Karasudhi, Pasidhi
See Kasem Chantaramungkorn, TN: ST1:Jan 73:234:9464

Karki, Karam S.
Supercritical Flow Over Sills at Incipient Jump Conditions, with Subhash Chander, HY10:Oct 72:1753:9235
  Dsc: V. Mura Hari, HY8:Aug 73:1280:9895
  TR:138:503

Karman, Tamas
Load Factors, State-of-Art Report 3, TB:73:III-26-901

Karp, Julian
Temperature Effects in Tall Reinforced Concrete Buildings, State-of-Art Report 4, TB:73:III-25-793

Karrholm, Gunnar
Stresses in Walls Due to Vertical Loads, with Hans Petersson, TB:73:III-21-302

Kartha, Viswanathan C.
See Hans J. Leutheusser, HY8:Aug 72:1367:9088

Karwoski, W.
Roof Movement Due to Increasing Roof Span in an Underground Opening -- Abstract, with Raghbir S. Sandhu and R. Singh, RM14:73:752

Kashef, Abdel-Aziz I.
Dsc, with Ray T. Whiteaker, SM12:Dec 72:1429:9394, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM6:June 72:557:8944

Kashiwamura, Masakazu
Flow Pattern at a River Mouth, with Shizuo Yoshida, ISSF:Aug 72:589

Kasiraj, Iyadurai
Fatigue Failure of Nonlinear Multistory Seismic Structure, ST3:Mar 72:655:8792
  Dsc: Mubadda T. Suidan, ST10:Oct 72:2324:9227
  Clo: ST12:Dec 72:2827:9395
  TR:138:194

Kassawara, R. P.
Dynamic Analysis of Structural Systems Excited at Multiple Support Locations, with D. A. Peck, SDNPF:Dec 73:73

Kassir, Mumtaz K.
Boussinesq Problems for Nonhomogeneous Solid, EM2:Apr 72:457:8847
  TR:138:236
See Manoon Chuaprasert, EM4:Aug 73:703:9948

Kastenholz, Daniel A.
Milwaukee Installs Concrete Median Barriers, CE:July 73:88

Kato, Ben
Analysis of T-Stub Flange-to-Column Connections, with William McGuire, ST5:May 73:865:9725
Instability Effects Under Dynamic and Repeated Load, State-of-Art Report 3, with Le-Wu Lu, TB:73:II-16-463
Optimum Earthquake Design of Shear Buildings, with Yuji Nakamura and Hidetake Anraku, EM4:Aug 72:891:9091
  Errata: EM3:June 73:601:9759
  TR:138:343
See Minoru Wakabayashi, TB:73:II-16-525

Katoh, Junkichi
Systematic Stress Analysis of Circular Pipe, TE4:Nov 72:1039:9386
  Errata: TE4:Nov 73:962:10110
  TR:138:584

Kaufman, Matthew I.
Subsurface Wastewater Injection, Florida, IR1:Mar 73:53:9598

Kaufman, Warren J.
See Denny S. Parker, SA1:Feb 72:79:8702

Kavanagh, Thomas C.
Criteria and Loading, Preface, TB:73:Ib-1
Engineering 1972-A Review, PP3:July 73:287:9889
Environmental Systems, Theme Report, TB:73:Ia-1-7
Introduction -- Planning and Design of Tall Buildings: Societal Aspects, Preprint No.2066, Oct 73
Some Esthetic Considerations in Steel Design, Preprint No.2115, Oct 73
Tall Buildings--A Technological Assessment, PP1:Oct 71:111:8476
  Dsc: Lynn S. Beedle, PP1:Jan 72:145:8621
  TR:138:54
Dsc, PP1:Oct 71:75:8408, of "Systems Approach and the Civil Engineer", PP1:Oct 71:65:8457
Dsc, ST7:July 73:1669:9826, of "Historical Development of Cable-Stayed Bridges", ST9:Sept 72:2079:9201

Kavyrchine, Michel
Experimental Results of Joint Tests, TB:73:III-21-323
Reinforced, Precast and Prestressed Concrete, State-of-Art Report 1, TB:73:Ia-3-415

Kawagoe, Kunio
System Design for Fire Safety, State-of-Art Report 5A, TB:73:Ib-8-569

Kawamura, Mitsunori
Dsc, SM:July 73:578:9825, of "Viscoelastic Shrinkage Stress in Soil-Cement Base", SM12:Dec 72:1375:9454

Kawata, Kazuyoshi
Dsc, SA6:Dec 72:1047:9393, of "Master Sewerage System for Metropolitan Manila", SA1:Feb 72:125:8712
See Vincent P. Olivieri, SA5:Oct 71:661:8419

Kawecki, Janus
See Roman Ciesielski, TB:73:Ia-11-999

Kazmann, Raphael G.
Dsc, PP4:Oct 72:732:9224, of "Integrity and the Ecological Crisis", PP1:Jan 72:25:8677
Dsc, IR2:June 73:192:9761, of "General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division", IR2:June 72:317:8996
Dsc, PO2:Nov 73:437:10111, of "Tarbela Dam Project, Pakistan", PO2:Oct 72:221:9265
Dsc, CE:Dec 73:22, on Environmental Quality in California, CE:July 73:50
See Ottoniel Arguello, Preprint No.1867, Jan 73
See Ottoniel Arguello, IR4:Dec 73:441:10212

Kealey, T. Robert
Feasibility Study of Mississippi River Crossings -- Interstate Route 410, Preprint No.2003, Apr 73

Kealy, C. Daniel
See William G. Pariseau, RM14:73:501

Keefe, James M.
Relocation Assistance Programs, PP1:Jan 73:101:9504

Keefer, Thomas N.
See Raul S. McQuivey, HY9:Sept 72:1625:9184

Keenan, John D.
Response of *Anabaena* to pH, Carbon, and Phosphorus, EE5:Oct 73:607:10048

Keene, Philip
Dsc, SM11:Nov 73:1026:10112, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515

Keener, Donald F.
Managerial Functions; Responsibilities, and the Team Approach, EPMT:73:9

Kehrberger, George J.
Dsc, EE3:June 73:381:9758, of "Oxygen Theory in Biological Treatment Plant Design", SA3:June 72:471:8938

Kelcey, Guy
Noted Traffic Engineer Dies, CE:Nov 73:86

Kelkar, Vasant S.
Dsc, ST11:Nov 73:2322:10113, of "Symmetry in Structural Mechanics", ST1:Jan 73:71:9475

Kellerhals, Rolf
Sampling Procedures for Coarse Fluvial Sediments, with Dale I. Bray, HY8:Aug 71:1165:8279
Dsc: Charles R. Neill, HY1:Jan 72:303:8620; Andrew M. Torrance and George H. Caddie, HY5:May 72:960:8859
Clo: HY1:Jan 73:266:9459
TR:137:1023

Kelly, A. Roger
Dsc, TE3:Aug 73:689:9896, of "The Trans-Alaska Pipeline Story", TE1:Feb 73:139:9573

Kelly, R. E.
See Subhash C. Mehrotra, ISSF:Aug 72:603

Kelly, William E.
Dsc, SM5:May 72:510:8860, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447
Dsc, SM7:July 73:571:9825, of "In Situ Creep Analysis of Room in Frozen Soil", SM9:Sept 72:899:9202
Dsc, SM8:Aug 73:641:9892, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515
Dsc, SU1:Sept 73:141:9965, of "Elevation Changes Due to Tides, Long Beach, Calif.", SU2:Nov 72:137:9315

Kemp, Emory L.
Commentary on Structural Standards, Summary Report, TB:73:III-20-139
Ellet's Contribution to the Development of Suspension Bridges, PP3:July 73:331:9872
Industrial Archaeology - An Avocation for Engineers, PP4:Oct 73:481:10087

Kemp, Patrick H.
See Philip B. Williams, HY6:June 72:1057:8952

Kennedy, D. J. Laurie
High Strength Bolted Galvanized Joints, ST12:Dec 72:2723:9410
Errata: ST10:Oct 73:2212:10039
TR:138:576

Kennedy, John B.
Buckling of Steel Angle and Tee Struts, with Madugula K.S. Murty, ST11:Nov 72:2507:9348
Errata: ST9:Sept 73:1958:9964
TR:138:547

Kennedy, John F.
Turbulent Flows Past Boundaries with Small Streamwise Flows, with Sheng-Tien Hsu and Jung-Tai Lin, HY4:Apr 73:605:9664
See George D. Ashton, HY9:Sept 72:1603:9191
See Mehmet S. Uzuner, HY12:Dec 72:2117:9418
See K. Gopaladrishnan, HY2:Feb 73:378:9523

Kennedy, Thomas W.
See William Ronald Hudson, TE2:May 73:235:9722

Kennedy, William D
See Thomas E. Hoover, TE1:Feb 73:53:9518

Kent, Dudley Charles
See Robert Park, ST7:July 72:1341:9011

Keplar, Richard K.
See John E. Goldberg, ST4:Apr 72:945:8802

Kerley, James H., Jr.
Financing Airport Development, ASC73:Mar 73:141

Kermode, Richard I.
See John J. Davis, EE3:June 73:301:9803

Kerri, Kenneth D.
Environmental Assessment of Resource Development, SA2:Apr 72:361:8811
TR:138:282

Kesavan, H. K.
Graph-Theoretic Models for Pipe Network Analysis, with M. Chandrashekar, HY2:Feb 72:345:8709
Clo: HY2:Feb 73:377:9523
TR:138:167

Keshava, Satya P.
Vibration of Flanged Beams and Panels, TN: ST7:July 73:1681:9828

Keshavan, Krishnaswamingar
Oxygen Sag Curve with Thermal Overload, with G. Clinton Sornberger and Charles I. Hirshberg, EE5:Oct 73:569:10045
See G. Clinton Sornberger, EE4:Aug 73:479:9943

Kesler, Clyde E.
Control of Shrinkage, Creep and Temperature Volume Changes Through Variations of Material Properties, State-of-Art Report 1, TB:73:III-25-757

Ketchum, Milo S.
Dsc, ST4:Apr 73:796:9640, of "Analysis of Hipped Roof Hyperbolic Paraboloid Structures", ST7:July 72:1575:9052
See Chesley J. Posey, PP1:Jan 73:128:9460

Kett, Irving
An American Engineer in Israel, CE:June 72:63
Dsc: Norman L. Cooper, CE:Aug 72:46; Leon Levy, CE:Oct 72:63; Murray I. Brill, CE:Jan 73:52; Elias Zolkov, CE:June 73:24
TR:138:295

Key, William H., Jr.
See Surendra P. Shah, ST1:Jan 72:111:8640

Keys, John W., III
See James F. Ruff, HYB:Aug 73:305

Khachaturian, N.
Optimization of Structures, TB:73:II-14-233

Khan, Fazlur R.
Systems and Concepts, Preface, TB:73:Ia-1

Khander, M.H. Abdul
Dsc, with K. Elango, HY5:May 73:845:9689, of "Reattaching Flow Downstream of Leaf Gate", HY5:May 72:913:8919

Khanna, P.
Dsc, EE5:Oct 73:748:10035, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403
See Pramod K. Swamee, EE2:Apr 73:123:9650

Khaskhachikh, G. D.
Regular Wave Effects on Walls Made of Cylinders, with O. M. Vanchagov, WW4:Nov 71:735:8547
Dsc: Subrata K. Chakrabarti, WW4:Nov 72:591:9310
TR:138:101

Khatua, Tara P.
Triangular Element for Multilayer Sandwich Plates, with Yau Kai Cheung, EM5:Oct 72:1225:9233
TR:138:443

Khwaja, Imamuddin
Analysis of Noncircular Cylindrical Shells, with John Stephenson, ST1:Jan 73:33:9473

Kidder, Alice E.
See Arthur Saltzman, TE4:Nov 72:855:9369
See Arthur Saltzman, Preprint No.2046, July 73

Kiefer, Ralph W.
Aerial Photography for Water Resource Studies, with James P. Scherz, SU2:Nov 71:321:8545
  Dsc: Santosh K. Mahajan, SU2:Nov 72:239:9308
  TR:138:149
Computer Based Land Use Suitability Maps, with Michael L. Robbins, SU1:Sept 73:39:10015

Kiesling, Ernst W.
Civil Engineering for Recreation, with George A. Whetstone, CE:Apr 72:50
  TR:138:182

Kiley, Edward V.
"Quo Vadis", PP1:Jan 73:85:9495

Kilpatrick, Frederick A.
See Nobuhiro Yotsukura, EE4:Aug 73:499:9947

Kim, C. M.
See Bezalel C. Haimson, RM14:73:748

Kim, Jai B.
Lateral Load Tests on Full-Scale Pile Groups, with Robert J. Brungraber and C. H. Kindig, PES:72:I-1105
  Dsc: Michele B. Jamiolkowski and S. Marchetti, PES:73:III-237

Kimball, William A.
Kimball Dies At 100, CE:June 73:94

Kind, K. Ya.
See A. G. Averkiev, ISSF:Aug 72:485

Kindig, C. H.
See Jai B. Kim, PES:72:I-1105

King, Alton B.
See Calvin G. Clyde, HY10:Oct 73:1777:10088

King, Danny L.
Environmental Impact and Hydraulic Structures -- Current and Predicted, with Glenn R. Drummond and David W. McDougall, Preprint No.1913, Jan 73

King, Darrell L.
Biological and Chemical Interactions in Reservoirs, Preprint No.1884, Jan 73

Kingsburg, Robert P.
See Dilip S. Mehta, SA3:June 72:471:8938

Kinsey, William R.
Underground Pipeline Corrosion, TE1:Feb 73:167:9574

Kinsman, George
Power Plant Cooling Systems, PO2:Oct 72:247:9231
  TR:138:364

Kirk, D. Wayne
See Thomas G. Barton, ST4:Apr 73:687:9655

Kirsch, Uri
Optimum Design by Partitioning into Substructures, with Max Reiss and Uri Shamir, ST1:Jan 72:249:8645
  TR:138:117
Optimum Design of Prestressed Plates, ST6:June 73:1075:9777
Reanalysis for Limited Structural Design Modifications, with Moshe F. Rubinstein, EM1:Feb 72:61:8706
  Dsc: John H. Argyris and John R. Roy, EM6:Dec 72:1599:9390
  Clo: EM3:June 73:598:9759
  TR:138:75

Kirstein, Arthur F.
Dsc, ST5:May 72:1206:8861, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71:2203:8353

Kisiel, Chester C.
Dsc, HY9:Sept 72:1720:9156, of "Flood Frequency Estimating Techniques for Small Watersheds", HY9:Sept 71:1441:8383
See Lucien Duckstein, SA5:Oct 72:791:9225
See Lucien Duckstein, HY12:Dec 72:2241:9391
See Michael L. Popovich, EE5:Oct 73:577:10104

Kisisel, Ismail T.
Turbulence in Shallow Water Flow Under Rainfall, with Ramachandra A. Rao and Jacques W. Delleur, EM1:Feb 73:31:9535
See Ramachandra A. Rao, HY6:June 72:1082:8925

Kitipornchai, Sritawat
Elastic Stability of Tapered I-Beams, with Nicholas S. Trahair, ST3:Mar 72:713:8775
  Dsc: Negussie Tebedge, ST1:Jan 73:211:9462
  Errata: ST5:May 73:952:9693
  Clo: ST7:July 73:1640:9826
  TR:138:165
See John R. Booker, EM5:Oct 71:1451:8415
See Nicholas S. Trahair, ST11:Nov 72:2551:9339

Klaiber, F. Wayne
Analytical and Model Studies of Prestressed Folded Plates, with Martin J. Gutzwiller and Robert H. Lee, ST6:June 73:1287:9818

Klauder, Louis T.
Need for Competent Engineering for Transit Systems, TN: TE3:Aug 73:9899

Klee, Albert J.
See Robert M. Clark, SA5:Oct 71:563:8403

Klegerman, Morris H.
Proposed Water Resources Trust Fund, CE:Apr 73:52

Klei, Herbert E.
See Martin S. Hertzendorf, SA2:Apr 72:379:8821

Klein, George E.
See Dan G. Haney, TE4:Nov 72:823:9319

Kleinberg, Burton
Introduction to Metric or SI, CE:Mar 73:55
  Dsc: Burton Kleinberg, CE:Apr 73:81
Dsc, CE:Apr 73:81, on Introduction to Metric or SI, CE:Mar 73:55

Klemes, Vit
Watershed as a Semi-Infinite Storage Reservoir, Preprint No.1895, Jan 73
Watershed as Semiinfinite Storage Reservoir, IR4:Dec 73:477:10213
Dsc, IR3:Sept 73:406:9962, of "Potential United States Water-Supply Development", IR3:Sept 72:479:9214

Klimok, V. I.
A Theoretical Model and Density Field Calculation in the Ocean with Arbitrary Bottom Relief, with V. P. Kochergin and A. S. Sarkisian, ISSF:Aug 72:261

Kline, George O.
Effect of Environment on Rapid Transit Construction, TE2:May 73:367:9751

Kline, Stephen J.
Research and Planning in Fluid Mechanics, HY5: May 72:765:8898
Errata: HY3:Mar 73:549:9580
TR:138:281

Klingeman, Peter C.
Hydrologic Evaluations in Bridge Pier Scour Design, HY12:Dec 73:2175:10224
See Robert T. Milhous, HYB:Aug 73:293

Klumb, David L.
See F. E. Wisely, CE:Dec 72:30
See F. E. Wisely, Preprint No.2114, Oct 73

Klus, John P.
Esthetics in Water Towers, CE:Sept 73:84
University of Wisconsin Offers Professional Development Degree, with C. Allen Wortley, CE: Jan 72:49
TR:138:20

Knapp, John W.
See Walter J. Rawls, HY9:Sept 72:1575:9206

Knapp, Robert L.
See Arthur James Mc Arthur, TB:73:Ia-1-199

Knecht, A. Wilson
A. W. Knecht, Well-Known Consultant, Dies, CE: Dec 73:81

Knight, Donald W.
Long Wave Propagation in Idealized Estuary, HY7: July 73:993:9842

Knox, Hugh S.G.
Dsc, ST12:Dec 72:2818:9395, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825: 8606

Ko, Hon-Yim
Bearing Capacities by Plasticity Theory, with Ronald F. Scott, SM1:Jan 73:25:9497
Dsc: Richard G. Pope, SM11:Nov 73:1020:10112
Bearing Capacity of Footings in Plane Strain, with Luther W. Davidson, SM1:Jan 73:1:9496
Constitutive Relations of Coal, with Kurt H. Gerstle, RM14:73:157

Ko, Stephen C.
Cost-Effectiveness Analysis of Wastewater Reuses, with Lucien Duckstein, SA6:Dec 72:869:9434
Errata: EE5:Oct 73:751:10035
TR:138:552
Drag Coefficient of Cylinders in Turbulent Flow, with Walter H. Graf, HY5:May 72:897:8920
TR:138:305

Kochergin, V. P.
See V. I. Klimok, ISSF:Aug 72:261

Koehm, Edward
See Fred R. Cline, Preprint No.1945, Apr 73

Koelzer, Victor
See Charles Luce, CE:May 73:70

Koh, Severino [illegible].
See Mohammed H. Baluch, ST9:Sept 72:1957:9203

Kohnke, Peter C.
Analysis of Eccentrically Stiffened Cylindrical Shells, with William C. Schnobrich, ST7:July 72:1493:9033
TR:138:344

Kokoropoulos, Panos
Kinetics as Design Criteria for Post Chlorination, with George P. Manos, EE1:Feb 73:73:9557
Dsc: Karl Longley, Vincent P. Olivieri and Cornelius W. Kruse, EE5:Oct 73:757:10035

Kolar, Vaclav
Dsc, HY10:Oct 73:1894:10037, of "Predicting Sediment Yield in Western United States", HY12: Dec 72:2073:9432

Kolbeck, Henry J.
See Philip G. Sikes, PO1:May 73:217:9741

Koletty, Fred C.
See Edward G. Nawy, TE2:May 72:243:8891

Koltnow, Peter G.
Safety Performance Standards for Highway Service, Preprint No.1982, Apr 73

Komito, Donald H.
Dsc, CE:July 72:52, on Computers: Key to Integrated Building Design, CE:Mar 72:74

Kondratiev, A.
Characteristics of the Construction of Multi-Story Frame Buildings Built in Moscow, State-of-Art Report 1, TB:73:II-14-157

Konig, Gert
Cast-in-Place Reinforced Concrete Systems, State-of-Art Report 7, TB:73:Ia-3-515
German Code Requirements, TB:73:Ib-10-1027
Stability of Frames and Shear Walls, with Gerd Ambos, Hans-Joachim Bubenheim and Michael Heunisch, TB:73:III-23-613

Konski, James L.
The Bicycle Anarchy, TE4:Nov 73:757:10120

Koo, Benjamin
Dsc, ST3:Mar 73:588:9583, of "Simple Interaction Equations for Beam-Columns", ST7:July 72:1413: 9020

Kopelman, I. J.
See Martin S. Hertzendorf, SA2:Apr 72:379:8821

Koppula, Sivajogi D.
Consolidation of Clay Layer in Two Dimensions, with Norbert R. Morgenstern, SM1:Jan 72:79:8674
Dsc: Gerald P. Raymond, SM5:May 72:513:8860; R. T. Murray, SM12:Dec 72:1414:9394; Icarahy da Silveira, SM12:Dec 72:1416:9394
TR:138:168

Korbay, George S.
Business Development and the Selection Process, EPMT:73:21
California ASCE Sections Prepare Employment Guidelines, with Ronald P. Gallagher, CE:Jan 72:52
TR:138:25

Kordina, Karl
Behaviour and Design of Slender Concrete Columns, State-of-Art Report 4, TB:73:III-23-555
Cast-In-Place Joints for Tall Buildings, TB:73:III-21-308
Cracking and Crack Control, TB:73:III-24-721

Korol, Robert M.
Plastic Behavior of Hollow Structural Sections, with John Hudoba, ST5:May 72:1007:8872
Errata: ST3:Mar 73:586:9583
TR:138:230
Strength Predictions of Plates in Uniaxial Compression, with Archibald N. Sherbourne, ST9: Sept 72:1965:9194
TR:138:444
See Archibald N. Sherbourne, ST10:Oct 72:2223: 9239

Korolischuk, Elias M.
See Clifford D. Smith, TN: HY1:Jan 73:153:9463

Kort, Calvin L.
Vertical Transportation, State-of-Art Report 4, TB:73: Ia-2-341

Kostem, Celal N.
See John M. Kulicki, TB:73:III-22-473

Kostro, George
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, CE:Dec 73:64

Kottegoda, Nath T.
Stochastic Five Daily Stream Flow Model, HY9:Sept 72:1469:9165
TR:138:438

Kotzias, Panaghiotis C.
See Aris C. Stamatopoulos, SM7:July 72:727:9066

Kouwen, Nicholas
Flexible Roughness in Open Channels, with Tharakkal Eroman Unny, HY5:May 73:713:9723

Kovacs, William D.
See George G. Goble, PES:73:III-3

Kozak, Jiri
Banquet Remarks at the Tall Buildings Conference, TB:73:C-517
Structural Systems of Tall Buildings with Core Structures, State-of-Art Report 8, TB:73:Ia-3-537

Kozak, John J.
Poor Structural Design Brings West Gate Bridge Failure, with Charles Seim, CE:June 72:47
Dsc: David Allen, CE:Sept 72:73; C.V. John Holland, CE:Sept 72:78; Ostap Bender, CE:Oct 72:82
TR:138:272

Kraft, Walter H.
Location of Bus Stops, with Thomas J. Boardman, TE1:Feb 72:103:8740
TR:138:79

Krambles, George
Expressway Rapid Transit, TE4:Nov 72:1023:9388
Dsc: Joseph Barnett, TE4:Nov 73:964:10110
Errata: TE2:May 73:428:9691
TR:138:590

Kranenburg, C.
See J. P. Th. Kalkwijk, HY10:Oct 71:1585:8440

Krauss, Frederick E.
Pneumatic Technique for Buoyant Caissons, WW1:Feb 73:19:9516
1,200-Ft Graving Dock, with George H. Plude, WW4:Nov 72:549:9389
TR:138:605

Krauss, Mordechai
See Jacob Gluck, ST10:Oct 73:2143:10089

Krauss, Wolfgang
Wind-Generated Internal Waves and Inertial-Period Motions, ISSF:Aug 72:283

Krawinkler, Helmut
See Vitelmo V. Bertero, ST5:May 72:1137:8915

Kray, Casimir J.
Design of Ship Channels and Maneuvering Areas, WW1:Feb 73:89:9559

Kreisle, William E.
Survey Design and Procedures, CE:Feb 72:43
TR:138:77

Krieger, James H.
Nader's Raiders Versus California Water Project, PP1:Jan 73:39:9490
Dsc: Robert A. Skinner, PP4:Oct 73:539:10040; Harry Wiersema, PP4:Oct 73:10040

Krishna, Jai
Aseismic Design of Buildings, TB:73:Ib-6-299
See Sarjit S. Saini, ST7:July 72:1395:9015

Krishnamachar, B. S.
General Review of Standards for Steel Buildings in India, State-of-Art Report 6, TB:73:II-13-103

Krishnaswamy, C. N.
Dsc, with Bryan A. Erler and Adolf Walser, ST7:July 73:1664:9826, of "Experimental Studies of Membrane Shear Transfer", ST8:Aug 72:1835:9145

Krishnaswamy, N. R.
See M. Anandakrishnan, SM10:Oct 73:863:10092

Kriz, George J.
See R. Wayne Skaggs, IR3:Sept 72:363:9183

Krizek, Raymond J.
Coupled Sliding and Rocking of Embedded Foundations, with Dinesh C. Gupta and Richard A. Parmelee, SM12:Dec 72:1347:9421
TR:138:582
Unsteady Flow to Bottom Drain in Bounded Aquifer, with Antonio Soriano and Imre Gyuk, IR2:June 73:169:9807
See Antonio Santos-Moreno, EM1:Feb 72:141:8738
See Raymond N. Yong, Preprint No.2020, Apr 73
See Abdelsalm M. Salem, WW4:Nov 73:439:10157

Kroenke, Wayne C.
Finite Element for Reinforced Concrete Frame Study, with Martin J. Gutzwiller and Robert M. Lee, ST7:July 73:1371:9835

Krone, Ray B.
See David K. Hills, SA6:Dec 71:851:8596
See Arunachalan Sargunam, TN: HY3:Mar 73:555:9609

Krueger, E. Rex
See Robert L. Schiffman, PP2:Apr 72:251:8834

Kruse, Cornelius W.
See Richard Stringer, SA6:Dec 71:801:8567
See Karl Longley, EE5:Oct 73:757:10035

Krutchkoff, Richard G.
See William R. Schofield, SA5:Oct 72:745:9296

Kubik, Harold E.
See Leo R. Beard, IR3:Sept 72:433:9219

Kudrna, Frank L.
The Prairie Plan, Preprint No.1890, Jan 73
The Prairie Plan, UP2:Sept 73:205:9971

Kuhlemeyer, Roger L.
Finite Element Method Accuracy for Wave Propagation Problems, with John Lysmer, TN: SM5:May 73:421:9703

Kuhlmann, Lou
See Dallas Grenley, Preprint No.2092, Oct 73

Kulak, Geoffrey L.
See Lorne J. Butler, ST5:May 72:989:8874

Kulandaiswamy, V. C.
Dsc, with S. Muthukumaran, HY11:Nov 73:2131:10109, of "Boundary Effects on Stability of Structures", HY9:Sept 72:1557:9199
See S. Muthukumaran, HY3:Mar 72:541:8794

Kulesh, N. P.
See A. M. Mukhamedov, ISSF:Aug 72:543

Kulesza, Richard L.
See Harris H. Burke, SM10:Oct 72:1033:9268

Kulhawy, Fred H.
Stresses and Movements in Oroville Dam, with James M. Duncan, SM7:July 72:653:9016
Dsc: Nigel A. Skermer, SM4:Apr 73:356:9639
Clo: SM10:Oct 73:887:10038
TR:138:363
See Stephen G. Wright, SM10:Oct 73:783:10097

Kulicki, John M.
Nonlinear Analysis of Concrete Flexural, Members, with Celal N. Kostem, TB:73:III-22-473

Kulin, Gershon
Dsc, IR1:Mar 72:159:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987

Kulka, Felix
Dsc, CE:Aug 72:59, on Long-Span Bridge: Utility, Grace at Low Cost, CE:May 72:73
Dsc, CE:Oct 72:76, on Record Concrete Shell Roof Featured in Coliseum, CE:June 72:51

Kulkarni, S. V.
Some Orthotropic Shells with Bending Suppressed, with Ricardo Chicurel and Daniel Frederick, EM3: June 73:537:9808

Kumar, Rajnish
See Mohammed Ali Dokainish, EM6:Dec 72:1381: 9431

Kumar, Virendra
See Pramod K. Swamee, EE2:Apr 73:123:9650

Kunitomi, Dale S.
Elevation Changes Due to Tides, Long Beach, Calif., SU2:Nov 72:137:9315
Dsc: William E. Kelly, SU1:Sept 73:141:9965
TR:138:445

Kunukkasseril, Vincent X.
Vibrations of Elastically Connected Ring Systems, with K. Rami Reddy, EM4:Aug 72:777:9092
Dsc: S. S. Rao, EM4:Aug 73:884:9894
TR:138:350
See A. S. J. Swamidas, EM4:Aug 73:835:9900

Kuo, John T.C.
See Conrad P. Heins, Jr., ST5:May 72:1105:8921

Kupfer, Helmut B.
Behavior of Concrete Under Biaxial Stresses, with Kurt H. Gerstle, EM4:Aug 73:853:9917

Kurz, Johannes W
Transformation of Plans into Actions, UP2:Sept 73: 183:10029

Kurzeme, Marcis
See Kiichi Tanimoto, SM4:Apr 73:353:9639

Kuzmanovic, Bogdan O.
Optimum Plastic Design of Steel Frames, with Nicholas Willems, ST8:Aug 72:1697:9154
TR:138:423
Some Design Problems of Large Box Girder Bridges, ST9:Sept 72:2059:9193
TR:138:439

Kuzminski, Lawrence N.
Effect of Calcium Bicarbonate on Disinfection by Halogens, with Tsuan H. Feng and Chih C. Liu, SA1:Feb 72:229:8722
TR:138:222

Kuznetsov, B. G.
See O. F. Vasiliev, ISSF:Aug 72:161

Kwiatkowski, Robert W.
Environmental Design of Bear Swamp Project, with Louis D. Pierce, PO1:May 73:205:9738

Kwiecinski, M.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-516

Ladanyi, B.
PES:73:III-235

Ladd, Charles C.
See David J. D'Appolonia, SM10:Oct 71:1359:8438

Lade, Poul V.
Cubical Triaxial Tests on Cohesionless Soil, with James M. Duncan, SM10:Oct 73:793:10057

LaFrenz, Robert L.
See Richard H. Groves, CE:Aug 72:60

Lai, K. K.
See Ian R. Wood, HY1:Jan 72:87:8649

Lai, Robert Y.S.
Accelerated Motion of a Spheroid in Viscous Fluid, HY6:June 73:939:9809

Lai, Ying-San
Direct Search Optimization Method, with Jan D. Achenbach, ST1:Jan 73:19:9470

Laing, Edward B.
See Edward Cohen, CE:Oct 73:46

Lakshmana Rao, Nagar S.
Characteristics of Hydrofoil Weirs, with M. V. Jagannadha Rao, HY2:Feb 73:259:9542
Orifice Losses for Laminar Approach Flow, with Kalambur Sridharan, HY11:Nov 72:2015:9370
Dsc: D. Bhagavantam, HY11:Nov 73:2140:10109
TR:138:556
See M. V. Jagannadha Rao, IR4:Dec 71:656:8553

Lal, Pande B.B.
Dsc, HY9:Sept 73:1635:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Lalwani, C. K.
Design Assumptions, TB:73:Ib-5-127

Lam, Chan F.
Computer Analysis of Water Distribution Systems: Part I - Formulation of Equations, with M. L. Wolla, HY2:Feb 72:335:8729
Dsc: Frederick L. Hotes, HY10:Oct 72:1889: 9222; Ralf G. Cembrowicz and Joseph J. Harrington, HY10:Oct 72:1890:9222
Clo: HY5:May 73:845:9689
TR:138:173
Computer Analysis of Water Distribution Systems: Part II--Numerical Solution, with M. L. Wolla, HY3:Mar 72:447:8782
Dsc: Ralf G. Cembrowicz and Joseph J. Harrington, HY10:Oct 72:1890:9222; Roger P. Donachie, HY12:Dec 72:2244:9391; D. Bree and H. S. Rao, HY3:Mar 73:540:9580
TR:138:207
Discrete Gradient Optimization of Water Systems, HY6:June 73:863:9804

Lamb, R. S.
Dsc, with G. Davies, ST3:Mar 73:583:9583, of "Nonlinear Stress Analysis of Reinforced Concrete", ST4:Apr 72:885:8845

Lambe, T. William
The Integrated Civil Engineering Project, SM6:June 72:531:8991
TR:138:337
Predicting Performance of Braced Excavations, PES: 73:III-255

Lamberton, Bruce A.
Dsc, SM8:Aug 73:637:9892, of "Strength Properties of Chemically Solidified Soils", SM11:Nov 72:1163: 9332

Lance, Richard H.
Limit Analysis of Ductile Fiber-Reinforced Structures, with David N. Robinson, EM1:Feb 72: 195:8736
TR:138:130
See John D. Helfinstine, EM4:Aug 72:849:9132

Langham, Edward J.
New Approach to Hydrologic Data Acquisition, HY12:Dec 71:1965:8578
  Dsc: Robert L. McFall, HY9:Sept 72:1727:9156; Morley J. Goodspeed, HY10:Oct 72:1879:9222
  Clo: HY4:Apr 73:681:9637
  TR:138:56

Lanning, Cortland C.
High Head Gates and Valves in the United States, by the Task Committee on Outlet works of the Committee on Hydraulic Structures of the Hydraulic Division, HY10:Oct 73:1727:10107

Lardieri, Armando C.
Flood Proofing Regulations for Building Codes, Preprint No.1915, Jan 73

Larock, Bruce E.
See Stevens T.K. Chan, HY1:Jan 73:81:9465
See Stevens T.K. Chan, HY6:June 73:959:9787

Larraguibel, Luis
Empresa Nacional de Electricidad S. A. - Endesa's Building, TB:73:C-P-478

Larrain, L. Prieto S.
See J. Aguirre, TB:73:C-P-466

Larras, Jean
Dsc, HY10:Oct 73:1895:10037, of "Ripple Profiles Modeled Mathematically", HY3:Mar 73:441:9618

Larsen, Peter
Hydraulic Roughness of Ice Covers, HY1:Jan 73:111:9498
  Dsc: Saul E. Rantz, HY11:Nov 73:2154:10109

Larsson, Hans
Dsc, ST5:May 72:1200:8861, of "Alternative Approach to Light-Gage Beam Design", ST8:Aug 71:2119:8327

Lash, Michael
The Highway and Its Neighborhood, Preprint No.2113, Oct 73

Lashkari, Mehran
Vibrations of Pressure Loaded Hyperboloidal Shells, with Victor I. Weingarten and David S. Margolias, EM5:Oct 72:1017:9230
  TR:138:431

Lathlean, R. F.
Dsc, CE:June 73:26, on The Gap Between Intent and Performance -- Why Shortchange the Client?, CE:Feb 73:40

Lattuada, Vicente Casales
See Aurelio Bemassini Vizcaino, PES:73:III-135
See Aurelio Bemassini Vizcaino, PES:73:III-135

Lau, Y. Lam
Dsc, HY5:May 72:963:8859, of "Dispersion in Natural Streams", HY11:Nov 71:1867:8540

Laura, Della
Dsc, CE:July 73:25, on Are More Women Needed in Civil Engineering, CE:May 73:54
Dsc, CE:Oct 73:32, on Are More Women Needed in Civil Engineering, CE:May 73:54

Laura, Patricio A.
See Enrique Romanelli, EM2:Apr 72:415:8809

Lauriello, P. J.
Thermal Fracturing of Hard Crystalline Rock -- Abstract, RM14:73:751

Laursen, Emmett M.
Dsc, HY1:Jan 73:280:9459, of "Role of Economics in Planning Flood Plain Land Use", HY6:June 72:981:8935
See Herbert B. Osborn, HY7:July 73:1129:9871

Laursen, Harold I.
See Robert A. Crist, Preprint No.2031, Apr 73

Laushey, Louis M.
Dsc, HY9:Sept 73:1642:9961, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295

Laverty, Finley B.
Dsc, CE:Jan 73:59, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107
See Jack J. Coe, IR3:Sept 72:419:9178

Law, Frederick M.
Aesthetics -- Part of Civil Engineering, PP2:Apr 72:275:8850
  Dsc: Chesley J. Posey and Milo S. Ketchum, PP1:Jan 73:128:9460
  TR:138:324
Esthetics -- A Necessary Part of the Engineer's Education, Preprint No.2075, Oct 73

Law, Margaret
Fire Loads, Natural Fires and Standard Fires, State-of-Art Report 1, with P. Arnault, TB:73:Ib-8-475
See Duiliu Sfintesco, TB:73:Ib-8-739

Lawless, G. Paul
See Paul R. Nixon, IR2:June 72:185:8945

Lawrence, Alonzo W.
Dsc, SA3:June 72:600:8928, of "Treatment of Refinery Waste by Physicochemical Processes", SA4:Aug 71:467:8318
See Joseph H. Sherrard, EE6:Dec 73:773:10220
See Andrew C. Middleton, EE6:Dec 73:960:10180

Lawson, Robert T.
Seismic Design of LASH Terminal, with Henry J. Degenkolb, Preprint No.2007, Apr 73

Lay, Maxwell G.
Beam-Column Design, TB:73:II-15-382
Response of Steel Building in Fire, TB:73:Ib-8-719
Review of Steel Design Standards in Australia, State-of-Art Report 4B, TB:73:II-13-71
Sway in Structures, TB:73:II-16-590
Dsc, ST2:Feb 72:536:8684, of "Glossary of Terms Pertaining to Structural Steel Engineering and Design, Ad Hoc Committee on Nomenclature, Administrative Committee on Metals of the Structural Division", ST8:Aug 71:2137:8322

Laza, Robert W.
See Orlando B. Andersland, SA6:Dec 72:927:9443

Lazar, Benjamin E.
Load Balancing Analysis of Cable Stayed Bridges, with Michael S. Troitsky and Matthew McC. Douglass, ST8:Aug 72:1725:9122
  TR:138:379
Stiffness-Analysis of Cable-Stayed Bridges, ST7:July 72:1605:9036
  Dsc: M. Hariharan and M. P. Kapoor, ST7:July 73:1661:9826
  TR:138:349
Dsc, ST10:Oct 71:2631:8411, of "Analysis of Cable-Stayed Girder Bridges", ST5:May 71:1481:8116
Dsc, ST5:May 73:961:9693, of "Design of Cable-Stayed Girder Bridges", ST8:Aug 72:1789:9151

Lazaro, Angel L., III
Full-Range Analysis of Concrete Frames, with Rowland Richards, Jr., ST8:Aug 73:1761:9934

Leaf, Charles F.
Dsc, IR3:Sept 72:507:9157, of "Volume of Snowmelt Intercepted by Logging Roads", IR1:Mar 72:1:8770

Leber, Richard A.
See R. O. Cunningham, Preprint No.1968, Apr 73

Leclerc, Andre
Desorption and Retentivity of Filtering Materials, with Truong Tri Vu, SA6:Dec 72:937:9401
Dsc: Kenneth J. Ives, EE5:Oct 73:746:10035; Tagadur P. Halappa Gowda, EE6:Dec 73:959:10180
TR:138:498
Dsc, with Truong Tri Vu, SA6:Dec 72:1046:9393, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605

Leclerc, Guy
See John C. Schaake, Jr., Preprint No.2103, Oct 73

Lee, Antoinette J.
Iron, Engineers, and Urbanization, PP2:Apr 73:179:9672

Lee, Baum K.
Stochastic Analysis of Dune Bed Profiles, with Harvey E. Jobson, Preprint No.2106, Oct 73

Lee, C. F.
Dsc, PES:73:III-157, of "Analysis of Embankment Deformations", PES:72:I-817
See Kwan Y. Lo, SM9:Sept 72:981:9158

Lee, Chun-Hsiung
See Tung-Ming Wang, TN: EM4:Aug 73:919:9898

Lee, Douglass B., Jr.
Analysis of BART Impacts on Bay Area Land Use, TE2:May 72:395:8907
TR:138:226

Lee, Duane L.N.
See William H. Townsend, Preprint No.2010, Apr 73

Lee, George C.
See Charles B. Notess, PP1:Jan 73:59:9493

Lee, Henry W.L.
Large Deflections of Curved Plates, with Conrad P. Heins, Jr., ST4:Apr 71:1143:8045
Dsc: B. P. Bagish, ST3:Mar 72:767:8752
Clo: ST10:Oct 72:2311:9227
TR:138:1

Lee, Ian K.
Effect of Wall Movement on Active and Passive Pressures, with John R. Herington, SM6:June 72:625:8999
TR:138:347
Structure-Foundation Interaction Analyses, with Peter T. Brown, ST11:Nov 72:2413:9352
Dsc: Avigdor Rutenberg, ST9:Sept 73:1959:9964
TR:138:554
Dsc, with John R. Herington, SM9:Sept 72:973:9158, of "Finite Element Analyses of Retaining Wall Behavior", SM12:Dec 71:1657:8583

Lee, Jiin-Jen
Oscillations in Harbors with Connected Basins, with Fredric Raichlen, WW3:Aug 72:311:9094
TR:138:351

Lee, Jun W.
Anisotropic Beams by Moment-Differential Method, with John E. Johnson, EM6:Dec 73:1283:10207

Lee, Kenneth L.
Reinforced Earth Retaining Walls, with Bobby Dean Adams and Jean-Marie J. Vagneron, SM10:Oct 73:745:10068
Time to Dissolve Air Bubbles in Drain Line, with David K. Black, SM2:Feb 72:181:8728
TR:138:179
See David K. Black, SM1:Jan 73:75:9484

Lee, Lawrence H.N.
Stability of Inelastic Shells, Preprint No.2028, Apr 73
See Chi-Mou Ni, EM6:Dec 72:1529:9429

Lee, Li-chih
See Jeremy Isenberg, Preprint No.1989, Apr 73
See Jeremy Isenberg, TE4:Nov 73:887:10166

Lee, Robert G.
See Bernard A. Vallerga, ASC73:Mar 73:63

Lee, Robert H.
See F. Wayne Klaiber, ST6:June 73:1287:9818

Lee, Robert M.
See Wayne C. Kroenke, ST7:July 73:1371:9835

Lee, Seng-Lip
See Kasem Chantaramungkorn, TN: ST1:Jan 73:234:9464

Lee, Theodore T.
Dsc, WW1:Feb 73:131:9527, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527

Lee, Thomas M.
Effect of Transportation Planning on Flood Plain Management, HY3:Mar 72:475:8761
Dsc: Stuart G. Sriramulu and G. Padmanabhan, HY3:Jan 73:269:9459
TR:138:178
Management Problems in Flood Plain Areas, WW3:Aug 72:357:9121
TR:138:408
Wisconsin's Shoreland Management Program, UP1:July 72:45:9054
Dsc: Richard T. Schmidt, UP2:Sept 73:261:9966
TR:138:605

Leech, Leslie V.
See Charles S. Gray, TB:73:II-13-51

Leeds, David J.
Report on Conference on 1971 San Fernando, Ca., Earthquake, CE:May 72:58
Dsc: Ramzi H. Ferahian, CE:Aug 72:68; Robert V. Whitman, CE:Aug 72:68
TR:138:254

Lefebvre, Guy
Three-Dimensional Finite Element Analyses of Dams, with James M. Duncan and Edward L. Wilson, SM7:July 73:495:9857
See James M. Duncan, Preprint No.1949, Apr 73
See James M. Duncan, SM12:Dec 73:1153:10237

Legget, Robert F.
Dsc, SM7:July 73:564:9825, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM5:May 72:481:8917
Dsc, SM7:July 73:564:9825, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM6:June 72:557:8944
Dsc, SM7:July 73:564:9825, of ""“Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM7:July 72:749:9070
Dsc, SM7:July 73:564:9825, of "Subsurface Investigations for Design and Construction of Foundations of Buildings: Appendices A and B, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM8:Aug 72:771:9103

Lehnert, Johannes
See F. P. Robertson, CE:Dec 72:54

Leininger, Kurt V.
Dsc, CE:Apr 72:59, on Anti-Technology--The New Myth, CE:Jan 72:68

Leiser, Curtis P.
See Charles V. Gibbs, SA6:Dec 72:951:9402

Lelu, Victorien
Stone Asphalt Cores Waterproof French Dams, CE: Apr 72:70
TR:138:206

LeMee, Eugene
See Francois Baguelin, SM11:Nov 72:1129:9377

LeMehaute, Alain
See Francois Baguelin, SM11:Nov 72:1129:9377

Le Messurier, William J.
Design Methods Based on Stiffness, Summary Report, TB:73:II-17-715

Lemieux, Pierre F.
Efficient Algorithm For Distribution Networks, HY11:Nov 72:1911:9336
Dsc: Uri Shamir, HY8:Aug 73:1283:9895; Trevor R. Fietz, HY11:Nov 73:2136:10109
TR:138:545

Lemmon, Terrence E.H.
See Michael A. Garnett, ST3:Mar 72:587:8785

Lenau, Charles W.
Contamination of Discharge Well from Recharge Well, HY8:Aug 73:1247:9958
Dispersion from Recharge Well, EM2:Apr 72:331: 8813
TR:138:197

Lenke, Richard E.
Architectural-Structural Interaction, Theme Report, TB:73:Ia-12-1057

Lenschow, Rolf J.
See Alex E. Cardenas, ST11:Nov 72:2587:9368

Lenton, Roberto
See John C. Schaake, Jr., IR3:Sept 73:409:9962

Lenzen, Kenneth H.
Vibration of Floor Systems in Tall Buildings, State-of-Art Report 4, TB:73:II-17-667

Leonard, John W.
Incremental Response of 3-D Cable Networks, TN: EM3:June 73:621:9765
Nonlinear Dynamics of Cables with Low Initial Tension, EM2:Apr 72:293:8805
TR:138:170
Nonlinear Dynamics of Curved Cable Elements, TN: EM3:June 73:616:9765
Pressure-Stabilized Drop-Shaped Tanks, TN: EM10: Oct 73:1110:10041
Strongly Curved Finite Element for Shell Analysis, with Chin-Tsang Li, EM3:June 73:515:9805
See Chin-Tsang Li, EM3:June 73:495:9802

Leonards, Gerald A.
Session III - Shallow Foundations, PES:73:III-169
See William F. Brumund, SM1:Jan 72:27:8648

Leonhardt, Fritz
Cable Suspended Roof for Munich Olympics, with Jorg Schlaich, CE:July 72:41
Dsc: Joseph R. Passonneau, CE:Sept 72:61
TR:138:319

Leonov, A. I.
On the Generation of the Ocean Internal Waves, with J. Z. Miropolsky, ISSP:Aug 72:535

Leps, Thomas M.
Analysis of Failure of Baldwin Hills Reservoir, PES: 72:I-507
Dsc: Robert O. Castle and T. Leslie Youd, PES: 73:III-91
Clo: PES:73:III-100

Lesesne, Edward H.
Impact of Multiple-Purpose Reservoir System on Regional Environment, PP3:July 72:373:9029
TR:138:370

Leung, Paul
Water Consumption Study for Navajo Plant, with Raymond E. Moore, PO4:Dec 71:749:8564
Dsc: Charles A. Washburn, PO1:May 73:9690

Leuniz, William E.
See Kenneth Ware, SM12:Dec 73:1135:10239

Leutheusser, Hans J.
Effects of Inflow Condition on Hydraulic Jump, with Viswanathan C. Kartha, HY8:Aug 72:1367:9088
Dsc: V. Mura Hari, HY3:Mar 73:550:9580; Edward H. Wilson, HY4:Apr 73:698:9637; Chesley J. Posey, HY5:May 73:859:9689
Clo: HY11:Nov 73:2130:10109
TR:138:401
Experiments on Plane Couette Flow, with Vincent H. Chu, HY9:Sept 71:1269:8367
Dsc: M. H. Abdul Khader and H. Suresh Rao, HY6:June 72:1080:8925
Clo: HY12:Dec 72:2221:9391
TR:138:7
Extreme Roughness of Natural River Channel, with W. Orville Chisholm, HY7:July 73:1027:9831
Water Pollution Control by Hydraulic Aeration, with Francois J. Resch, HYB:Aug 73:315

Levelius, William H.
Quality Control Criteria, Theme Report, TB:73:Ib-9-749

Levi, Enzo
Experiments on Unstable Vortices, EM3:June 72:539: 8948
Dsc: Habib O. Anwar, EM1:Feb 73:227:9522; Chesley J. Posey, EM4:Aug 73:883:9894
Clo: EM5:Oct 73:1089:10041
TR:138:249

Levi, Franco
Limit States Design, Theme Report, TB:73:III-26-843

Levinson, Herbert S.
Modal Choice and Public Policy in Transportation, PP1:Jan 73:65:9514

Levitsky, Myron
Analytical Determination of Pressure on Formwork, EM3:June 73:551:9814

Levy, Leon
Dsc, CE:Oct 72:63, on An American Engineer in Israel, CE:June 72:63

Levy, Matthys P.
High-Rise Panel Structures, with Istvan S. Varga, ST5:May 72:975:8894
Dsc: Sebastine Selvaraj, ST7:July 73:1648:9826
TR:138:240

Levy, Roy
Computer Design of Antenna Reflectors, with Robert J. Melosh, ST11:Nov 73:2269:10178

Lew, I. Paul
See Lev Zetlin, Preprint No.1914, Jan 73

Lewicki, Bohdan
Joints, Precast Panel Buildings, State-of-Art Report 2, with Adrian Pauw, TB:73:III-21-171

Lewis, Albert D.M.
See Natarajan Annamalai, ST10:Oct 72:2235:9258

Lewis, Alfred T.
Auburn Dam -- World's Longest Arch Dam, PO2: Oct 72:293:9243
Errata: PO2:Nov 73:436:10111
TR:138:445

Lewis, L. Lawrence
Dsc, CE:Nov 73:24, on Practitioners Teach Students Art of Highway Engineering, CE:Jan 72:45

Lewis, Roland M.
Planning: Integrated Grant Administration Program, Preprint No.2052, July 73

Lewis, Roland W.
Numerical Analysis of Electro-Osmotic Flow in Soils, with C. Humpheson, SM8:Aug 73:603:9912

Lewis, W. Deming
Banquet Remarks at the Tall Buildings Conference, TB:73:C-514

L'Hermite, Robert
See E. James White, TB:73:Ib-9-901

Li, Chin-Tsang
Finite Element Analysis of Inflatable Shells, with John W. Leonard, EM3:June 73:495:9802
See John W. Leonard, EM3:June 73:515:9805

Li, Chung Y.
Comprehensive Sewage Plan Involves Open Space Preservation, CE:Jan 73:85

Li, Kun
See Kamlesh K. Jain, EE4:Aug 73:411:9945

Li, Ruh-Ming
Effect of Tall Vegetation on Flow and Sediment, with Hsieh W. Shen, HY5:May 73:793:9748
Dsc, with Daryl B. Simons, HY11:Nov 73:2145: 10109, of "Sediment Yield Computed With Universal Equation", HY12:Dec 72:2087:9426
See Hsieh W. Shen, HY5:May 73:771:9733
See Hsieh W. Shen, TN: HY11:Nov 73:2169:10/47

Li, Shu-t'ien
Pertinent Techniques for Compacting Concrete, with Donald A. Stewart, CO2:Sept 72:173:9181
Dsc: Aubrey E. Payton and Audrey P. Rabb, CO1:July 73:218:9822
TR:138:429
Ultimate Energy Design of Prestressed Concrete Fender Piling, with Venkataswamy Ramakrishnan, WW4:Nov 71:647:8527
Dsc: Ben C. Gerwick, Jr., WW2:May 72:293: 8863; Ganpat S. Pandit, WW3:Aug 72:422:9081; Yue-Chyou Yang, WW3:Aug 72:423:9081; Theodore T. Lee, WW1:Feb 73:131:9527
TR:138:81

Li, Wen-Hsiung
Effects of Dispersion on DO-sag in Uniform Flow, SA1:Feb 72:169:8743
Dsc: James P. Bennett, SA5:Oct 72:802:9225
Clo: EE2:Apr 73:157:9635
TR:138:251

Liang, Tung
See I-pai Wu, IR1:Mar 72:117:8776

Libby, James R.
Dsc, CE:Dec 72:58, on Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), CE:June 72:56

Libove, Charles
On Two Means of Alleviating Rush-Hour Crowding, Preprint No.2033, July 73
Two Means of Alleviating Rush-Hour Crowding, TE4:Nov 73:845:10144

Lie, T. T.
Optimum Fire Resistance of Structures, ST1:Jan 72: 215:8638
Dsc: Paul S. Symonds, ST12:Dec 72:2822:9395
Clo: ST6:June 73:1322:9763
TR:138:97
See W. W. Stanzak, ST5:May 73:837:9719

Liebman, Ernst
Legal Problems in Regulating Flood Hazard Areas, Preprint No.1869, Jan 73
Legal Problems in Regulating Flood Hazard Areas, HY11:Nov 73:2113:10135

Liebman, Jon C.
Dsc, SA1:Feb 72:267:8682, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280

Liggett, James A.
See Richard H. Gallagher, HY7:July 73:1083:9855

Lightenberg, F. K.
What Safety Margin is Necessary in a Structure?, TB: 73:Ib-10-1032

Lilienthal, Paul A.
See Edwin J. Chamberlain, TE3:Aug 73:678:9896

Lill, Richard A.
Dsc, TE4:Nov 73:967:10110, of "Energy-Intensiveness of Transportation", TE1:Feb 73:111: 9558

Lim, Lee C.
Sidesway Instability of Unbraced Tube Buildings, with Robert J. Mc Namara, TB:73:II-16-598
Stability of Novel Building Systems, State-of-Art Report 5, with Robert J. Mc Namara, TB:73:II-16-499

Limber, T. P.
Dsc, CE:Aug 73:40, on Our Priceless Heritage, Our Youth, CE:Mar 73:76

Limpert, Fred A.
Information Sources on Water Quality, Including Thermal Pollution, the Committee on Thermal Pollution of the Sanitary Engineering Division, SA3:June 72:569:8987
Errata: EE1:Feb 73:106:9521
Errata: EE4:Aug 73:558:9893
TR:138:407

Lin, A.
See P. C. Chang, ISSF:Aug 72:501

Lin, Chi Yu
See John A. Roberson, HY7:July 72:1187:9061

Lin, Jung-Tai
See John F. Kennedy, HY4:Apr 73:605:9664

Lin, Sheng Ching
See Cenap Oran, ST7:July 73:1349:9846

Lin, Shundar
Dsc, SA6:Dec 72:1049:9393, of "Bacterial Dieoff in Ponds", SA1:Feb 72:59:8714

Lin, Tung Y.
The Role of the Engineer in Systems Building, Preprint No.2012, Apr 73

Lin, Yen-Kuang
See Donald H. Gray, SM4:Apr 72:361:8840

Lincoln, Alexander R.
See Jason C. Yu, TE2:May 73:297:9728

Lind, Niels C.
Buckling of Longitudinally Stiffened Sheets, TN: ST7:July 73:1686:9828
An Invariant Second Moment Reliability Format, Preprint No.1921, Apr 73

Safety Level Decisions, State-of-Art Report 3, with E. Basler, TB:73:Ib-10-961
See Mayasandra K. Ravindra, Preprint No.2023, Apr 73
See Mayasandra K. Ravindra, ST7:July 73:1541:9864
See Saleh B. Abdel-Baset, ST11:Nov 73:2215:10128
See Wilfred W.C. Siu, ST11:Nov 73:2245:10159

Lindberg, H. A.
Dsc, CE:Dec 73:22, on Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43

Lindsay, John V.
Cities Solve Problems, TB:73:C-DM-211

Lindskog, Gote
See Robert D. Holtz, PES:72:I-273

Lindstrom, Vernie G.
Impact of OSHA on Designers, CE:July 73:85

Linstedt, K. Daniel
See Edwin R. Bennett, EE1:Feb 73:55:9537

Linzey, M. P.T.
Planning and Design at the Overall Building Level, State-of-Art Report 2, with John F. Brotchie, TB:73:C-AC31-183

Lipetz, Morton B.
Dsc, CE:June 73:22, on Computer-Driven Plotters: Will They Make the Draftsman Extinct?, CE:Feb 73:31

Liska, Joseph A.
Performance of Wood Construction in Disaster Areas, with Billy Bohannan, Preprint No.1929, Apr 73
Performance of Wood Construction in Disaster Areas, with Billy Bohannan, ST12:Dec 73:2345:10230

List, E J.
Turbulent Entrainment in Buoyant Jets and Plumes, with Jorg Imberger, HY9:Sept 73:1461:9992
Dsc, with Albert B. Pincince, HY10:Oct 73:1888:10037, of "Model Study of Dense Jet in Flowing Fluid", HY11:Nov 72:1921:9365

Litle, William A.
Boston Collapse, STF:73:99
See Leroy Z. Emkin, ST1:Jan 72:327:8675

Little, Robert Wm.
End Effects in Truncated Semi-Infinite Wedge, with Tommie R. Thompson, EM5:Oct 72:1239:9251
  Dsc: Isadore K. Silverman, EM2:Apr 73:418:9636
  Clo: EM5:Oct 73:1099:10041
  TR:138:484

Liu, Chih C.
See Lawrence N. Kuzminski, SA1:Feb 72:229:8722

Liu, Chin-shu
Multilake River System Operation Rules, with Allan C. Tedrow, HY9:Sept 73:1369:10021
River Systems Transition Function and Operation Study, HY6:June 73:889:9806

Liu, Henry
Manning's Coefficient for Smooth Pipes, SA2:Apr 72:353:8830
  Dsc: Santosh R. Goswami, EE1:Feb 73:95:9521
  Clo: EE4:Aug 73:555:9893
  TR:138:312

Liu, Philip L-F
Damping of Water Waves Over Porous Bed, HY12:Dec 73:2263:10218
See Trevor G. Carter, WW2:May 73:165:9699

Liu, Shih-Chi
An Approach to Time-Varying Spectral Analysis, EM1:Feb 72:243:8733
  Dsc: Mehmet Aziz Tayfun and Cheng Y. Yang, EM6:Dec 72:1606:9390
  Clo: EM3:June 73:599:9759
  TR:138:126
See Lawrence W. Fagel, EM4:Aug 72:929:9149

Liu, Tony C.Y.
Biaxial Stress-Strain Relations for Concrete, with Arthur H. Nilson, ST5:May 72:1025:8905
  Dsc: Ganpat S. Pandit, ST5:May 73:957:9693
  Clo: ST5:May 73:958:9693
  TR:138:247

Livesey, Robert H.
See V.S. Shastri Annambhotla, WW4:Nov 72:489:9358

Livneh, Moshe
See Jacob Uzan, TE1:Feb 72:17:8695

Ljatkher, V. M.
Hydrothermal Modeling and Design of Density Flows in Cooling Systems of Thermal and Nuclear-Power Plants, ISSF:Aug 72:299

Lo, Kwan Y.
Dsc, with C. F. Lee, SM9:Sept 72:981:9158, of "Finite Element Analysis of Strain-Softening Clay", SM1:Jan 72:43:8650

Locher, Frederick A.
Dsc, with Touvia Miloh, HY7:July 73:1187:9823, of "Ripples on Underside of River Ice Covers", HY9:Sept 72:1603:9191

Lockett, Wilfred G.
Dsc, HY11:Nov 73:10109, of "Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division", HY2:Feb 73:337:9571

Loehr, Raymond C.
Agricultural Runoff-Characteristics and Control, SA6:Dec 72:909:9406
  Dsc: Leland L. Harms, EE4:Aug 73:563:9893
  TR:138:520

Lof, George O.G.
Solar Heating and Cooling: Untapped Energy Put to Use, with Dan S. Ward, CE:Sept 73:88
See Blair T. Bower, EE1:Feb 73:1:9543

Lofgren, Ben E.
Monitoring Group Movement in Geothermal Areas, HYB:Aug 73:437

Lofthus, Clayton E.
See Jack I. Nicholls, ST11:Nov 71:2769:8485

Loftin, T. D.
See Thomas L. Cost, Preprint No.1954, Apr 73

Logan, Malcolm H.
Landslide at Silver Jack Dam, with Fred J. Davis, PES:73:III-315

Logcher, Robert D.
The State of the Art of Computer Graphics -- Applications in Structural Engineering, Task Committee on Computer Graphics of the Committee on Electronic Computation, Structural Division, Preprint No.2024, Apr 73
See Kanu S. Patel, ST4:Apr 73:621:9643

Lokken, Edwin C.
Concrete Safety Barrier Design, Preprint No.2062, July 73

Lombardo, Pio S.
Dsc, SA2:Apr 72:468:8800, of "Water Quality Simulation Model", SA5:Oct 71:569:8429

Long, Adrian E.
Punching Failure of Slabs -- Transfer of Moment and Shear, ST4:Apr 73:665:9654

Long, Richard P.
Mean Pore Sizes from Flow Measurements, with Thomas F. Zimmie, TN: SM7:July 73:583:9865
See Kent A. Healy, IR4:Dec 72:543:9422

Long, Robert R.
Some Properties of Turbulence in a a Stratified Shearing Flow, ISSF:Aug 72:317

Longinow, Anatole
See E. Bergmann, SDNPF:Dec 73:425
See John D. Rouse, SM12:Dec 73:1174:10184

Longley, Karl
Dsc, with Vincent P. Olivieri and Cornelius W. Kruse, EE5:Oct 73:757:10035, of "Kinetics as Design Criteria for Post Chlorination", EE1:Feb 73:73:9557

Loofbourow, R. L.
How to Cut Underground Construction Costs, CE: June 72:85
TR:138:310

Lopes Pereia, Carlos A.
See Anestis S. Veletsos, EM2:Apr 72:311:8806

Lo Presti, Frank E.
First U.S. Center-City People Mover, Debuts in Morgantown, W. Va., CE:Nov 72:57
TR:138:499

Lorca, A.
See J. Aguirre, TB:73:C-P-466

Lord, James
Inelastic Dynamic Behavior of Tall Buildings, TB:73:Ib-6-291

Lorentsen, Mogens
Consideration of Imperfections in the Design of Prefabricated Buildings, State-of-Art Report 6, TB:73:III-23-585

Lorin, P. A.
Commentary on Structural Standards, Theme Report, TB:73:II-13-7

Louckes, Frank Irwin
Memoir of, TR:138:632

Loucks, Daniel P.
Environmental Noise Management, with Blair T. Bower and Walter O. Spofford, Jr., EE6:Dec 73:813:10202

Love, H. W.
Dsc, CE:May 73:58, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Lovejoy, Warren B.
Urban Commodity Flow - Suggested Research Projects, UP1:July 72:55:9047
TR:138:554

Lovell, C. William, Jr.
See Fredy Romani, SM11:Nov 72:1209:9349

Lovera, Frederico
Dsc, HY3:Mar 73:547:9580, of "Friction Factors in Solid Material Laden Systems", HY4:Apr 72:681:8854

Lovering, Harry D.
Lateral Support of Concrete Block Walls, CE:May 73:74
Dsc: Michael A. Jordan, CE:Aug 73:24
Dsc, CO2:Sept 72:359:9155, of "Causes of Delay in the Construction Industry", CO2:Nov 71:177:8501

Low, Dana E.
Use of Simulation in Airport Planning and Design, Preprint No.2038, July 73

Lowe, John, III
Earth and Earth-Rock Dams, PES:73:II-55

Lowe, Peter G.
See Robert E. Melchers, EM6:Dec 73:1301:10181

Lowery, Richard L.
See D. Jack Bayles, ST5:May 73:853:9727

Lowy, Stan H.
Approximate Stress Analysis for Guyed Towers, CE: Mar 72:80
TR:138:169

Loziuk, Lawrence A.
Hydrothermal Analysis by Finite Element Method, with James C. Anderson and Ted Belytschko, HY11:Nov 72:1983:9372
Dsc: M. Nalluswami, HY11:Nov 73:2141:10109
TR:138:559
Transient Hydrothermal Analysis of Small Lakes, with James C. Anderson and Ted Belytschko, PO2: Nov 73:349:10150

Lu, Le-Wu
Banquet Remarks at Tall Buildings Conference, TB: 73:C-527
Closing Remarks at Tall Buildings Conference, TB: 73:C-511
Opening Remarks to Tall Buildings Conference, TB: 73:C-19
See Bernard M. McNamee, ST7:July 72:1613:9062
See J. Hartley Daniels, ST8:Aug 72:1769:9148
See Ben Kato, TB:73:II-16-463

Luce, Charles
National Water Commission Report, with Ted Schad and Victor Koelzer, CE:May 73:70

Luedtke, Robert J.
Physical and Biological Rehabilitation of a Stream, with Frederick J. Watts, Merlyn A. Brusven and Thomas L. Roberts, HYB:Aug 73:259

Luk, C. H.
Analysis of Safety Valve Discharging Into Closed Piping System, SDNPF:Dec 73:115

Lukas, Robert G.
Settlement Due to Chemical Attack of Soils, with Robert J. Gnaedinger, Jr., PES:72:I-1087
Dsc: Howard P. Thomas, PES:73:III-176

Lum, Walter B.
Dsc, SM8:Aug 73:648:9892, of "Comments on Conventional Design of Retaining Structures", SM2:Feb 73:181:9568

Lumb, Alan M.
Dsc, HY2:Feb 72:408:8681, of "Flood Frequency Estimating Techniques for Small Watersheds", HY9:Sept 71:1441:8383

Lumley, J. L.
A Model for Computation of Stratified Turbulent Flow, ISSF:Aug 72:335

Lundahl, Richard P.
See Lloyd C. Fowler, TE4:Nov 72:969:9380

Lundquist, Robert G.
Rock Structure Design by Failure Probabilities, with Robert W. Heins, RM14:73:329

Lutes, Loren D.
Transient Random Response of Bilinear Oscillators, with Vipin S. Shah, EM4:Aug 73:715:9918

Lyashko, I. I.
New Method for Solving Seepage Problems in Nonhomogeneous Media, with G. E. Mistetskii, EM4:Aug 73:639:9956

Lysmer, John
Shear Waves in Plane Infinite Structures, with Gunter Waas, EM1:Feb 72:85:8716
  Dsc: Stephen Thau and Martin A. Salmon, EM1: Feb 73:225:9522
  TR:138:89
See Roger L. Kuhlemeyer, TN: SM5:May 73:421: 9703

Lytkin, Y. M.
See O. F. Vasiliev, ISSF:Aug 72:161

Maass, Arthur
Budget Constraints and Multiobjective Planning, with David C. Major, PP3:July 72:359:9064
  TR:138:463

Mabin, Bhan
See Michael A. Garnett, ST3:Mar 72:587:8785

Mabry, Richard E.
An Evaluation of Mine Subsidence Potential, RM14: 73:263

Macagno, Enzo O.
Interactions Between Circulation and Density Stratification, ISSF:Aug 72:345

Macchi, Giorgio
Non-Linear Analysis and Limit Design, Theme Report, TB:73:III-22-333
Thickness Effects on Creep, TB:73:III-25-829

Maceri, Franco
Dsc, EM4:Aug 72:996:9125, of "Nonlinear Analysis of Instability in Tension", EM5:Oct 71:1487:8428

MacGregor, James G.
Approximate Inelastic Analysis of Shear Wall-Frame Structures, with Sauren N. Guha Majumdar, Rajendra P. Nikhed and Peter F. Adams, ST11: Nov 72:2351:9351
  Dsc: Sebastine Selvaraj, ST11:Nov 73:2311:10113
  TR:138:551
Design for the Limit State of Instability, TB:73:III-26-936
Flexural Stiffness, TB:73:III-24-724
Load Factor Variables, TB:73:III-26-935
The Shear Strength of Reinforced Concrete Members, by the Task Committee on Masonry and Reinforced Concrete of the Structural Division, ST6:June 73:1091:9791
Shear Strength of Reinforced Concrete Members, Preprint No.1995, Apr 73
Stability of Reinforced Concrete Building Frames, State-of-Art Report 1, TB:73:III-23-517

Macias-Rendon, Miguel Angel
Model Study of Beam-Slab Bridge Superstructures, with David A. VanHorn, ST9:Sept 73:1805:9998

Mackay, William K.
Transportation and Urban Renewal - Experience in the United Kingdom, UP1:Mar 73:1:9624

MacKenzie, Arnold J.
See Luther B. Grass, IR1:Mar 72:97:8759

Mackey, S.
Wind Loading and Wind Effects, Summary Report, TB:73:Ib-7-445

MacPhee, Craig
See Frederick J. Watts, HYB:Aug 73:11

Maddock, Thomas, Jr.
A Role of Sediment Transport in Alluvial Channels, HY11:Nov 73:1915:10130
Dsc, HY11:Nov 71:1904:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual", HY1:Jan 71:101:7786
Dsc, HY7:July 73:1191:9823, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295

Madhav, Madhira Radha
See Kanakatti Subramanya, HY12:Dec 73:2333: 10197

Madkour, Mohamed F.
Nonlinear Least Squares Algorithm, SU2:Nov 72: 185:9357
  Errata: SU1:Sept 73:145:9965
  TR:138:572

Madsen, Howard C.
See Earl O. Heady, HY10:Oct 73:1795:10074

Madsen, Larry
Dsc, CE:Aug 72:54, on Transit System Employs Three Modes, CE:May 72:41

Madsen, Leon K.
Management Defined, Characteristics, and Human Behavior, EPMT:73:1

Magnusson, Sven Erik
Probabilistic Analysis of Fire Safety, TB:73:Ib-10-1016

Magoon, Orville T.
Dsc, CE:Mar 73:87, on Tidal Energy from the Bay of Fundy, CE:Dec 72:40

Mahajan, Santosh K.
Comparison of Analytical Relative-Orientation Methods, with Singh Vijay, SU1:July 72:73:9056
  TR:138:340
Explicit Approach to Exterior Orientation, SU2:Nov 71:251:8518
  Errata: SU2:Nov 72:235:9308
  TR:138:62
Dsc, SU2:Nov 72:236:9308, of "Space Resection from Collinearity Conditions", SU2:Nov 71:205: 8520
Dsc, SU2:Nov 72:239:9308, of "Aerial Photography for Water Resource Studies", SU2:Nov 71:321:8545

Mahmood, Arshud
See W. David Carrier, III, SM10:Oct 73:813:10099

Mahmood, Khalid
Sediment Routing in Irrigation Canal Sytems, Preprint No.1905, Jan 73
Variation of Regime Coefficients in Pakistan Canals, Preprint No.2039, July 73
Dsc, HY10:Oct 71:1790:8407, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
See Saeed A. Rana, HY11:Nov 73:1967:10168

Maier, Giulio
Effects of Geometry Change on Essential Features of Inelastic Behavior, with Daniel C. Drucker, EM4: Aug 73:819:9914
Equilibrium Branching Due to Flexural Softening, with Adolfo Zavelani and Jean-Claude Dotreppe, TN: EM4:Aug 73:897:9898
See Osvaldo DeDonato, EM4:Aug 72:998:9125

Maini, Y. N.T.
See J. C. Sharp, RM14:73:481

Mainstone, Rowland J.
Ductility of Masonry Walls, TB:73:III-27-1101
History and Philosophy of Tall Buildings, TB:73:Ia-1-264
Internal Blast, State-of-Art Report 6, TB:73:Ib-8-643
See Duiliu Sfintesco, TB:73:Ib-8-739

Mairs, John E.
See Alan Jennings, ST11:Nov 72:2433:9321

Maitra, Nirmalendu
Dsc, CE:Sept 72:61, on Flood Channel Doubles as Golf Course, CE:May 72:49
Dsc, ST11:Nov 73:2324:10113, of "Practical Approach to Two-Way Slab Design", ST1:Jan 73: 131:9485

Majewski, Wojciech
Modeling of Heated-Water Discharges into River, ISSF:Aug 72:385

Major, David C.
Water Planning Models in North Atlantic Study, UP2:Sept 73:131:9996
See Arthur Maass, PP3:July 72:359:9064

Majtenyi, Steven I.
A Model to Predict Mean Annual Watershed Discharge, HY7:July 72:1171:9034
Errata: HY4:Apr 73:697:9637
TR:138:373

Makarevich, G.
Urban Planning with Tall Buildings in Moscow, State-of-Art Report 3C, TB:73:Ia-1-93

Makarov, I. I.
On the Peculiarities of Water Supply to Thermal and Nuclear Power Plants from Stratified Streams and Reservoirs, with S. L. Zisman, ISSF:Aug 72:371

Maki, Fumihiko
Tall Buildings and Urban Planning: The Menace of Tall Buildings, State-of-Art Report 3B, TB:73:Ia-1-91

Malcolm, David J.
Cosserat Surface and Sandwich Shell Equilibrium, with Peter G. Glockner, EM5:Oct 72:1075:9240
Errata: EM4:Aug 73:890:9894
TR:138:453
Nonlinear Sandwich Shell and Cosserat Surface Theory, with Peter G. Glockner, EM5:Oct 72:1183: 9244
Errata: EM4:Aug 73:890:9894
TR:138:459
See Peter G. Glockner, EM3:June 73:445:9775

Maldague, Jean Claude
Imposed Rotations Methods, State-of-Art Report 3, TB:73:III-22-395

Malhotra, Gurbachan P.
See Eugene J. Aubert, IR1:Mar 72:49:8787

Malhotra, M. M.
See Anjur R. Chandrasekaran, HY5:May 72:887:8923

Malhotra, Sudershan
Anaerobic Digestion of Sludge Containing Iron Phosphate, with Thomas P. Parrillo and Alan Gene Hartenstein, SA5:Oct 71:629:8432
Dsc: Philip C. Singer and Thomas L. Theis, SA5: Oct 72:784:9225
TR:138:74

Malhotra, V. M.
See Carl Berwanger, Preprint No.1956, Apr 73

Malina, Joseph F., Jr.
Refuse Reclamation and Recycle, with William T. Morgan, SA6:Dec 72:819:9437
TR:138:564
See David R. Brosman, SA3:June 72:606:8928

Mallet, Ronald J.
Structural Behavior of Masonry Elements, State-of-Art Report 3, TB:73:III-27-1001

Mancini, E.
See Miguel Carlos Stamato, ST12:Dec 73:2375:10193

Mangelson, Kenneth A.
Hydraulic Treatment Efficiency of Waste Stabilization, with Gary Z. Watters, SA2:Apr 72: 407:8849
Dsc: Santosh R. Goswami, EE1:Feb 73:99:9521
Clo: EE4:Aug 73:556:9893
TR:138:333

Mann, David
Ethical and Social Responsibility in the Planning and Design of Engineering Projects, PP1:Jan 72:33:8657
Dsc: Kenneth R. Wright, PP4:Oct 72:727:9224; Charles D. Crosthwaite, PP4:Oct 72:729:9224
Clo: PP2:Apr 73:276:9638
TR:138:107

Manos, George P.
See Panos Kokoropoulos, EE1:Feb 73:73:9557

Mansell, Donald S.
See Geoffrey D. Base, ST10:Oct 73:2123:10055

Mansour, Farid
Dsc, with Walter H. Graf, HY9:Sept 73:1627:9961, of "Turbulence Effects On Drag of Sharp-Edged Bodies", HY7:July 72:1187:9061

Mansur, Charles I.
See Willard J. Turnbull, SM11:Nov 73:939:10170

Manthei, James M.
See John R. Baldwin, CO2:Nov 71:177:8501

Manuzio, Caterina
Limit State Philosophy, State-of-Art Report 1, TB:73: II-19-835

Mar, Brian W.
Integrated Information Systems for Utilities, UP2: Sept 73:123:9984
See Stephen J. Burges, Preprint No.1877, Jan 73

Marathe, Madhav S.
Dsc, EM5:Oct 72:1312:9221, of "Griffith Fracture Criterion and Concrete", EM6:Dec 71:1663:8597

Marchetti, S.
See Michele B. Jamiolkowski, PES:73:III-237

Marchuk, G. I.
About Formulation of the Problems on the Dynamics of the Ocean, ISSF:Aug 72:69

Marcuson, William F., III
Time Effects on Dynamic Shear Modulus of Clays, with Harvey E. Wahls, SM12:Dec 72:1359:9442
TR:138:588

Marek, Pavel J.
Applications, State-of-Art Report 5, TB:73:II-19-869
See Frantisek Faltus, TB:73:II-13-37

Margolias, David S.
See Mehran Lashkari, EM5:Oct 72:1017:9230

Mariani, Nicholas
Tranverse Stiffener Requirements for Curved Webs, with John D. Mozer, Clive L. Dym and Charles G. Culver, ST4:Apr 73:757:9684

Marino, Miguel A.
Identification of Parameters in Finite Leaky Aquifer System, HY2:Feb 73:319:9567

Mark, Robert
See John F. Abel, SM7:July 73:509:9858

Markland, Eric
Dsc, IR4:Dec 71:656:8553, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987
See Joseph A. Clark, HY11:Nov 73:1897:10119

Markofsky, Mark
Prediction of Water Quality in Stratified Reservoirs, with Donald R.F. Harleman, HY5:May 73:729:9730

Markov, S. B.
See I. L. Rozovsky, ISSF:Aug 72:649

Markovsky, Mark
The Hydrodynamic Interaction of Thermal Stratification and Reservoir Water Quality, Preprint No.1893, Jan 73

Marks, B. Dan
Acceleration of Lime-Clay Reactions with Salt, with T. Allan Haliburton, SM4:Apr 72:327:8827
Dsc: Elias Zolkov, SM12:Dec 72:1421:9394
Clo: SM11:Nov 73:1013:10112
TR:138:235
See T. Allan Haliburton, TE2:May 72:325:8870

Marlow, Thomas A.
Participatory Management of Professionals, CE:Oct 73:71

Marryatt, H. W.
Sprinklers, TB:73:Ib-8-681

Marschi, N. Dean
Evaluation of Properties of Rockfill Materials, with Clarence K. Chan and H. Bolton Seed, SM1:Jan 72:95:8672
Dsc: Mosaid M. Al-Hussaini, SM12:Dec 72:1409:9394; Raymond J. Frost, SM12:Dec 72:1411:9394
TR:138:160

Marsden, Michael A.
See Edward R. Burroughs, Jr., IR1:Mar 72:1:8770

Marsh, Edward T.
Pipeline Location: Bibliography Supplement, Committee on Pipeline Location of the Pipeline Division, TE2:May 73:363:9739

Marsh, Roland O.
See Peter I. Yanev, SDNPF:Dec 73:397

Marshall, Peter W.
Basis for Tubular Joint Design Codes, with A. Anthony Toprac, Preprint No.2008, Apr 73

Marshall, R. D.
See W. A. Dalgliesh, TB:73:Ib-7-383

Marshall, Richard Anthony
See Robert A. Crist, Preprint No.2031, Apr 73

Martin, Angel J.
Legal Aspects of Thermal Discharges, Preprint No.2098, Oct 73

Martin, C. Samuel
Characteristics of an Air-Water Mixture in a Vertical Shaft, HYB:Aug 73:323
Graphical and Computer Analysis of Tailrace Surges, PO3:July 71:697:8261
Dsc: Wayne A. Johnson and Mohammad Hanif Chaudhry, PO1:June 72:179:8
Clo: PO1:May 73:9690
TR:137:1040

Martin, Frederick R.
Design and Evaluation of Aircraft Pavements -- 1971, with Raymond F.A. Judge and Maurice B. Chammings, TE4:Nov 73:785:10154

Martin, Ignacio
Reinforced Concrete Columns, State-of-Art Report 5, TB:73:III-21-223
Reinforced Concrete Columns Today, Preprint No.1919, Apr 73

Martin, John B.
Bounds for Impulsively Loaded Plastic Structures, with Alan R.S. Ronter, EM1:Feb 72:107:8745
TR:138:156
See J.-M. Chern, EM2:Apr 73:261:9646

Martin, Lawrence H.
Torsion and Bending of Prestressed Concrete Beams, with Peter J. Wainwright, ST11:Nov 73:2229:10129

Martin, Philippe P.
See John T. Christian, SM7:July 72:693:9030

Martin, R. Torrence
See W. David Carrier, III, SM11:Nov 73:979:10156

Martinez de la Plaza, Celetino
See Victor Sardi, HY7:July 73:1182:9823

Martz, E. Wayne
Health Services Authority of Delaware, Preprint No.2068, Oct 73

Marvin, Eugene L.
Viscoelastic Plate on Poroelastic Foundation, EM4:Apr 72:911:9133
Errata: EM3:June 73:602:9759
TR:138:395

Marynick, Stephen M.
See Robert V. Phillips, CE:July 72:70

Marzouk, Osman A.
Linear Theory of Orthotropic Cylindrical Shells, with George Abdel-Sayed, ST11:Nov 73:2287:10143

Masch, Frank D.
See Bobby E. Price, TE3:Aug 72:547:9117

Mason, Curtis
Regime Equations and Tidal Inlets, WW3:Aug 73:393:9952

Mason, Ralph
Satellite Transit at Seattle-Tacoma Airport, TE4:Nov 72:953:9379
TR:138:566

Masri, Sami F.
Forced Vibration of Class of Nonlinear Dissipative Beams, EM4:Aug 73:669:9959

Massonnet, Charles
Plastic Analysis and Design, Theme Report, TB:73:II-15-255

Mast, Robert F.
Walt Disney World Monorail Designed for Smooth Riding, with Charles W. Dolan, CE:Mar 72:48
TR:138:135

Masucci, Maurice R.
Four Win ASCE Zone Scholarships, CE:Sept 73:112

Masur, Ernest F.
Buckling of Shells -- General Introduction and Review, Preprint No.2000, Apr 73

Mathew, P. John
See Orlando B. Andersland, SM5:May 73:365:9713

Mathis, Samuel Jackson
Memoir of, TR:138:633

Matlock, Hudson
See C[illegible]ord O. Hays, Jr., ST10:Oct 73:2011:10091

Matov, N. G.
See A. P. Vasiliev, TB:73:Ia-3-489

Matsumoto, Gerald Y.
See C. D. Mote, Jr., EM3:June 72:595:8968

Matsushita, Kiyoo
High-Rise Building Construction Design in Japan and Asia, State-of-Art Report 1B, with Yoshichita Uchida, TB:73:Ia-12-1067

Matthew, Paul
Geothermal Operating Experience at Geysers Power Plant, PO2:Nov 73:329:10127

Matthys, John H.
See Franklin B. Johnson, ST2:Feb 73:259:9577

Mau, Sheng-taur
Minimum Expected Cost Optimization, with Robert G. Sexsmith, ST9:Sept 72:2043:9195
TR:138:447

Maughn, W. Don
Principles and Standards for Water and Land Resources Planning, PP3:July 72:311:9059
TR:138:452

Maupin, George W., Jr.
Sprinkle Treatment Increases Highway Skid Resistance, CE:Feb 72:51
TR:138:86

Maurizi, Mario J.
See Enrique Romanelli, EM2:Apr 72:415:8809

Mavis, Frederic T.
Dsc, HY9:Sept 71:1570:8345, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994
Dsc, ST8:Aug 72:1888:9079, of "Hardy Cross and the Rise of Numerical Methods", ST3:Mar 72:691:8762

Mawal, Manak B.
See Ganpat S. Pandit, ST7:July 73:1409:9850

Mawdsley, John A.
Computing Evapotranspiration by Geostrophic Drag Concept, with Wilfried Brutsaert, HY1:Jan 73:99:9483

Maxwell, W. Hall C.
Axisymmetric Shallow Submerged Turbulent Jets, with Hormoz Pazwash, HY4:Apr 73:637:9675
Dsc, HY8:Aug 72:1459:9076, of "Cooling Water Density Wedges in Streams", HY10:Oct 71:1639:8446

Maxworthy, T.
Experimental and Theoretical Studies of Horizontal Jets in a Stratified Fluid, ISSF:Aug 72:613

Mayer, Armand
Dsc, SM12:Dec 72:1425:9394, of "Seepage Through Dams with Horizontal Toe Drain", SM5:May 72:461:8878

Mayo, David F.
Development of Nonpneumatic Caisson Engineering, CO1:July 73:155:9838

Mazilu, P.
Aseismic Design in Romania, TB:73:Ib-6-279

Mazzeo, L. Agustin
Perimetral Tube for 37-Story Steel Building, with Armin De Fries, ST6:June 72:1255:8937
Dsc: Avigdor Rutenberg, ST3:Mar 73:586:9583
TR:138:288

Mc Arthur, Arthur James
Architecture of Tall Buildings, State-of-Art Report 8, with Frank L. Cordella and Robert L. Knapp, TB:73:Ia-1-199

McArthur, Robin P.
See Clifton W. Johnson, HY8:Aug 73:359

McBean, Ed A.
Dsc, SA3:June 72:603:8928, of "Water Quality Simulation Model", SA5:Oct 71:569:8429

McBreen, James R.
Memoir of, TR:138:634

McCaffery, Robert J.
Turbine Generator Vibrations as Induced into a Barge Mounted Nuclear Power Plant, with Charles M. Johnson, Preprint No.1978, Apr 73

McCaffrey, Richard J.
Dynamics of Guyed Towers, with Alois J. Hartmann, ST6:June 72:1309:8988
TR:138:303

McCall, John E.
See Peter W. Anderson, IR3:Sept 72:375:9205

McCarter, Michael K.
Strength Versus Energy Dissipation in Sandstone, with John E. Willson, RM14:73:223

McCarthy, Gerald T.
Engineering Management for the Dallas/Fort Worth Airport, ASC73:Mar 73:165
Tocks Island Lake Project -- Panel Discussion, Preprint No.2079, Oct 73

McClellan, Dorothy M.N.
Dsc, CE:July 73:26, on Are More Women Needed in Civil Engineering, CE:May 73:54

McClelland, Bramlette
Design and Performance of Deep Foundations, PES:73:II-111
Dsc: George G. Goble and Frank Rausche, PES:73:III-227; C. P. Wroth, PES:73:III-231

McCloskey, Charles C., III
See James E. Crews, PP4:Oct 72:543:9267

McClure, George S., Jr.
Sustained and Cyclic Loading of Concrete Beams, with Kurt H. Gerstle and Leonard G. Tulin, ST2:Feb 73:243:9564

McConnel, Richard E.
See Robin Shepherd, EM3:June 72:609:8949

McCorkle, Burr L.
Dsc, CE:Apr 72:49, on Anti-Technology--The New Myth, CE:Jan 72:68

McCormick, Fred C.
Why Not Plastics Bridges?, ST8:Aug 72:1757:9143
TR:138:399

McCormick, John M.
On the Implementation of Computer Software, with Melvin L. Baron, Preprint No.2022, Apr 73

McCormick, Michael E.
Planing Characteristics of Fast-Water Buoys, with David Folsom, WW4:Nov 73:485:10179

McCormick, Michael M.
Dsc, ST12:Dec 72:2814:9395, of "Suggested Design Guides for Beams with Web Holes, by the Subcommittee on Beams with Web Openings of the Task Committee on Flexural Members of the Structural Division", ST11:Nov 71:2707:8536

McCorquodale, John A.
Supercritical Flow Over Sills, with M. K. Giratalla, HY4:Apr 72:667:8846
Errata: HY2:Feb 73:381:9523
TR:138:239

McCreedy, C. T.
See Norman L. Scott, CE:Mar 73:72

McCullough, B. Frank
See Harvey J. Treybig, TE4:Nov 71:681:8543

McDaniel, James U.
See Malcolm N. Stephens, Preprint No.1946, Apr 73

McDaniel, Thomas N.
See Richard B. Catanach, PES:72:I-867

McDermid, Ramsay M.
See M. Gamal Mostafa, HY10:Oct 71:1777:8407

McDermott, James H.
Drinking Water: Problems for the 70's, CE:Sept 73:100
Federal Drinking Water Standards - Past, Present, and Future, EE4:Aug 73:469:9924

McDonald, Claudie K.
See James H. Woodward, TN: ST8:Aug 73:1797:9911

McDonald, James R.
See Joseph E. Minor, ST11:Nov 72:2455:9324
See Joseph E. Minor, STF:73:49

McDonald, Jerry L.
Design of a Two-Way Post-Tensioned Waffle Slab, CE:May 73:64

McDonnell, Archie J.
Variable Respiration in Aquatic Plant Communities, with Dennis W. Weeter, SA2:Apr 72:325:8852
TR:138:348

McDonough, James F.
See Boyd C. Ringo, ST5:May 73:955:9693

McDougall, David J.
See Gabrielle Douglas, RM14:73:121

McDougall, David W.
See Danny L. King, Preprint No.1913, Jan 73

McDowell, Donald M.
Mathematical Model of River Hooghly, with David Prandle, WW2:May 72:225:8866
Dsc: K. K. Bandyopadhyay, WW2:May 73:281:9694; Arunendu Sen and Anadi Chatterjee, WW2:May 73:283:9694
Clo: WW4:Nov 73:497:10114
TR:138:209

McEwen, Robert B.
Applications of Extraterrestrial Surveying and Mapping, with David A. Tyler, SU2:Nov 72:201:9383
TR:138:604

McFall, Robert L.
Sanitary Sewer Bedding Scored as Underdrain Conduit, CE:May 72:51
TR:138:240
Dsc, HY4:Apr 72:728:8799, of "Fluid-Dynamic Consideration of Bottom Materials", HY9:Sept 71:1317:8374
Dsc, IR2:June 72:333:8926, of "Tunnel Vision or Ecological View", IR3:Sept 71:397:8368
Dsc, HY9:Sept 72:1727:9156, of "New Approach to Hydrologic Data Acquisition", HY12:Dec 71:1965:8578
Dsc, IR1:Mar 73:115:9581, of "General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division", IR2:June 72:317:8996
Dsc, UP1:Mar 73:122:9584, of "Public Participation in Urban Water Planning", UP2:Dec 71:179:8585
Dsc, IR2:June 73:199:9761, of "Prefabricated Filter-Fin for Subsurface Drains", IR4:Dec 72:543:9422

McGarry, Fred J.
See Surendra P. Shah, EM6:Dec 71:1663:8597

McGauhey, Percy H.
Clean Water -- An Environmental Challenge, SA2:Apr 72:375:8812
Dsc: Thiruvenkatachari Viraraghavan, EE1:Feb 73:94:9521
Clo: EE4:Aug 73:553:9893
TR:138:290

McGhee, Terence J.
Laboratory Studies on Feedlot Runoff, with Lyle R. Christensen and William F. Bonneau, EE6:Dec 73:883:10205

McGill, David J.
Axisymmetric Stresses and Displacements in Thick-Walled Elastic Torus, with Ira H. Rapp, III, TN: EM3:June 73:629:9765

McGrath, William K.
Dsc, ST12:Dec 72:2816:9395, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825:8606
See John B. Scalzi, ST12:Dec 71:2837:8604

McGuinness, J. L.
Maximum Potential Evapotranspiration Frequency - East Central U.S., with Leslie H. Parmele, IR2:June 72:207:8943
TR:138:267

Mc Guire, J. H.
See M. Galbreath, TB:73:Ib-8-721

McGuire, William
See Ben Kato, ST5:May 73:865:9725

McHarg, Ian
Best Shore Protection: Nature's Own Dunes, CE:Sept 72:66
Dsc: George C. Govatos, CE:Mar 73:75
TR:138:400

McHenry, Douglas
McHenry, Founder Of RCRC, Dies, CE:Oct 73:98
'73 Boase Award To Douglas McHenry, CE:Feb 73:71

McHenry, J. Roger
Dsc, HY8:Aug 71:1253:8267, of "Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual", HY12:Dec 70:2417:7781

McKay, Hugh G., III
Partially Precast-Prestressed Intake Structure, with Paul C. Gurley, Jr., PO1:May 73:001:9706

McKetta, John J.
The Critical U.S. Energy Situation, PP2:Apr 73:171:9685
Dsc: Asit K. Biswas, PP4:Oct 73:546:10040

McKinney, Ross E.
See John L. Carter, EE2:Apr 73:135:9679

McKyes, Edward
See Robert M. Quigley, TN: SM5:May 73:417:9703

McLaren, James R.
Factors Affecting Ammonia Removal by Clinoptilolite, with Grahame J. Farquhar, EE4:Aug 73:429:9901

McMahon, Thomas A.
See Gary P. Codner, HY9:Sept 73:1421:10002

McMaster, Eugene R.
See James W. McPhillips, PP2:Apr 72:181:8797

McMinn, Jack H.
Salary Guidelines: Enlightened Implementation or Unionization?, PP4:Oct 73:429:10090

McMordie, Robert C.
See Harold K. Pratt, SM10:Oct 72:1053:9290

McMullan, John G.
See Stephen C. Chen, Preprint No.1983, Apr 73

Mc Namara, Robert J.
See Lee C. Lim, TB:73:II-16-499
See Lee C. Lim, TB:73:II-16-598

McNamee, Bernard M.
Inelastic Multistory Frame Buckling, with Le-Wu Lu, ST7:July 72:1613:9062
  TR:138:368

McNorgan, John D.
Gas Line Response to Earthquakes, Preprint No.1975, Apr 73
Gas Line Response to Earthquakes, TE4:Nov 73:821:10149

McPherson, Murray B.
Need for Metropolitan Water Balance Inventories, HY10:Oct 73:1837:10078

McPhillips, James W.
Action in Public Affairs -- A Way of Life, with Brian R. Hogan, Eugene R. McMaster and David A. Novick, PP2:Apr 72:181:8797
  Dsc: Otto C. von Seggern, PP4:Oct 72:735:9224
  Clo: PP3:July 73:406:9824
  TR:138:239
Guidelines for Engaging in Public Affairs Activities, by the Committee on Public Affairs of the Member Activities Division, PP1:Oct 71:167:8480
  Dsc: Sergei N. Grimm, PP4:Oct 72:726:9224
  TR:138:68

McQuivey, Raul S.
Measurement of Velocity-Concentration Covariance, with Thomas N. Keefer, HY9:Sept 72:1625:9184
  TR:138:459

McWilliams, P. C.
See E. H. Skinner, RM14:73:754

Medearis, Kenneth
On the Alternatives and Considerations for Acquiring Computer-Aided Analysis Tools, Preprint No.2022, Apr 73
Stabilization of Ground at Eisenhower Tunnel Access, with Omar S. Stemple and Jack E. Gay, CE:July 73:82

Medland, Ian C.
Stiffness Functions for Elastically Supported Members, TN: ST2:Feb 73:295:9545
See F. David Edmonds, ST3:Mar 72:695:8771

Meek, Charles C.
See Barclay G. Jones, TN: EM1:Feb 73:233:9528

Meek, Jethro W.
Dynamic Analysis by Extra Fast Fourier Transform, with Anestis S. Veletsos, EM2:Apr 72:367:8824
  Errata: EM6:Dec 72:1608:9390
  TR:138:218

Meeks, Nathan D.
See Thomas C. Ferrara, PP4:Oct 73:543:10040

Megahan, Walter F.
Volume Weight of Reservoir Sediment in Forested Areas, HY8:Aug 72:1335:9129
  TR:138:435

Mehlburger, Max A.
Memoir of, TR:138:635

Mehrotra, Bharat L.
Shear Lag Analysis of Rectangular Full-Width Tube Junctions, with Ashok K. Govil, ST1:Jan 72:287:8665
  TR:138:128

Mehrotra, Subhash C.
Boundary Contractions as Controls in Two-Layer Flows, HY11:Nov 73:2003:10160
On the Question of Non-Uniqueness of Internal Hydraulic Jumps and Drops in a Two-Fluid System, with R. E. Kelly, ISSF:Aug 72:603

Mehta, Champa L.
See Miloslav Tochacek, ST6:June 72:1273:8973

Mehta, Dilip S.
Oxygen Theory in Biological Treatment Plant Design, with Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938
  Dsc: George J. Kehrberger, EE3:June 73:381:9758; James A. Mueller, EE3:June 73:383:9758
  TR:138:360

Mehta, Kishor C.
See Joseph E. Minor, ST11:Nov 72:2455:9324
See Joseph E. Minor, STF:73:49
See Fred P. Wagner, Jr., Preprint No.1964, Apr 73

Mehta, P. K.
Durability of Cement Concrete in Sulfate Environment, with Robert B. Williamson, Preprint No.2100, Oct 73

Mei, Chiang C.
Waves in a Harbor with Protruding Breakwaters, with Ricardo V. Petroni, WW2:May 73:209:9700
See Trevor G. Carter, WW2:May 73:165:9699

Meier, Louis
ASCE Legislative Involvement, CE:Oct 73:57

Meier, Peter M.
Stochastic Population Projection at Design Level, SA6:Dec 72:883:9436
  Dsc: Ashok N. Shahane, EE4:Aug 73:565:9893; David J. Silberman, EE5:Oct 73:752:10035; Thiruvenkatachari Viraraghavan, EE5:Oct 73:753:10035
  TR:138:557

Meinheit, Donald F.
Dsc, ST2:Feb 72:522:8684, of "Strength of Load-Bearing Masonry Walls", ST5:May 71:1593:8143

Melbourne, W. H.
Wind Tunnel Test Expectations, TB:73:Ib-7-441

Melchers, Robert E.
Optimal Fiber-Reinforced Plate Corners, TN: ST7:July 73:1692:9828
Dsc, with Peter G. Lowe, EM6:Dec 73:1301:10181, of "Rectangular Grillages of Least Weight", EM6:Dec 72:1337:9404

Mellema, Warren J.
See Duane J. Sveum, WW2:May 72:191:8867

Melnick, Joseph L.
See Mark D. Sobsey, EE3:June 73:245:9778

Melnikov, N. P.
Hotel "Intourist" Smolenskaya Square, TB:73:C-P-240
New Trends and Possibilities in Development of Metal Structures, TB:73:C-DM-201
Review of Building Standards and Design Specifications for Steel Structures in the U.S.S.R., State-of-Art Report 7, TB:73:II-13-121

Melosh, Robert J.
Engineering Requirements for Computer Software, Preprint No.2022, Apr 73
See Roy Lévy, ST11:Nov 73:2269:10178

Melott, Dale B.
Pennsylvania Tries Mastic Asphalt Pavement, CE:June 73:56

Melville, Phillip L.
Status of Airport Research and Development Program, ASC73:Mar 73:19

Mendenhall, Irvan F.
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Mendes, F. Mello
Laboratory Simulation of Mine Pillar Behavior, with C. D. Da Gama, RM14:73:107

Mendoza, Enrique
See Emilio Rosenblueth, EM6:Dec 71:1625:8584

Mercer, Albert G.
Irrotational Flow with Irregular Boundary Shapes, HY8:Aug 73:1209:9937
Ripple Profiles Modeled Mathematically, with M. Ikramul Haque, HY3:Mar 73:441:9618
  Dsc: Jean Larras, HY10:Oct 73:1895:10037

Mergentime, Charles E.
Underpinning Massive Structures, CE:Mar 72:40
  TR:138:123

Merkens, Paul W.
Dsc, CE:Mar 73:89, on Specialty Registration for Engineers, CE:Dec 72:32

Merriam, John L.
Dsc, IR2:June 73:188:9761, of "Water Deficits Irrigation Design and Programming", IR2:June 72:215:8955

Merrifield, John T.
Bidding is Against Client Interest, PP3:July 73:389:9878
Why Bidding Is Not In The Best Interest of The Client, Preprint No.1965, Apr 73

Merrill, Edward A.
Booby Traps for Young Engineers on Construction, CO2:Nov 71:305:8541
  Dsc: Edward A. Abdun-nur, CO2:Sept 72:365:9155
  Clo: CO1:July 73:209:9822
  TR:138:108

Merritt, LaVere B.
Computer-Based Optimal Design of Sewer Systems, with Richard H. Bogan, EE1:Feb 73:35:9578

Mesri, Cholamreza
Coefficient of Secondary Compression, SM1:Jan 73:123:9515
  Dsc: William E. Kelly, SM8:Aug 73:641:9892; Robert P. Vallee and Orlando B. Andersland, SM8:Aug 73:642:9892; Coefficient of Secondary Compression, Philip Keene, SM11:Nov 73:1026:10112; Coefficient of Secondary Compression, Karim Habibagahi, SM11:Nov 73:1027:10112

Metcalf, Howard L.
Dsc, CE:Nov 72:49, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE:Aug 72:55

Metzler, Dwight F.
The Challenge of Environmental Protection, PP2:Apr 73:197:9667
Legal Problems in Water Pollution Control, Preprint No.1891, Jan 73

Meursinge, John H.
Dsc, CE:Apr 73:77, on Superior Pension Plan Helps Attract Employees, CE:Jan 73:58

Meyer, Christian
Analysis of Curved Folded Plate Structures, with Alexander C. Scordelis, ST10:Oct 71:2459:8434
  Dsc: Alexander Hrennikoff, ST8:Aug 72:1877:9079
  Clo: ST3:Mar 73:575:9583
  TR:138:20
Engineer's Inquiry Box: Prestress Force In Variable-Depth Beam Grid, CE:Dec 73:63
Solution of Linear Equations--State-of-the-Art, ST7:July 73:1507:9861
See Alexander C. Scordelis, ST8:Aug 72:1878:9079

Meyer, John D.
Shakedown of Strain-Hardening Structures, with Kurt H. Gerstle, ST1:Jan 72:95:8641
  TR:138:106

Meyer, Walter L.
Professionalism in Construction, PP2:Apr 73:205:9656

Meyerhof, George G.
Dsc, SM5:May 73:414:9692, of "Anchor Behavior in Sand", SM11:Nov 72:1187:9338

Meyers, V. James
Plastic Sandwich Buckle-Shell Structures, with Dhamo T. Ramani and Mark E. Greenwood, ST11:Nov 72:2381:9323
  TR:138:515

Michalos, James
Hardy Cross and the Rise of Numerical Methods, ST3:Mar 72:691:8762
  Dsc: Frederic T. Mavis, ST8:Aug 72:1888:9079; Linton E. Grinter, ST9:Sept 72:2127:9159
  Clo: ST3:Mar 73:579:9583
  TR:138:153

Micheau, Terry W.
See Louis R. Shaffer, CO1:Mar 71:113:8008

Micka, Thomas
Reaeration Experiments with Microorganisms, with Edward R. Holley and Frank W. Sollo, TN: EE6:Dec 73:971:10186

Middleton, Andrew C.
Dsc, with Alonzo W. Lawrence, EE6:Dec 73:960:10180, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403

Middleton, Francis M.
Research Needs for Advanced Waste Treatment, with Robert L. Stenburg, SA3:June 72:515:8956
  Dsc: Ernest W.J. Diaper, EE1:Feb 73:102:9521; Thiruvenkatachari Viraraghavan, EE2:Apr 73:158:9635
  TR:138:367

Miedema, Henry J.
Repair of Seismic Damage to Aboveground Pipelines, with John B. Olson, Preprint No.2026, Apr 73

Mierzejewski, Edward
See Richard de Neufville, TE3:Aug 72:663:9141

Mifune, Tsuyoshi
See Masaru Tanaka, SA3:June 72:561:8990

Mighdoll, M. J.
Dsc, CE:Nov 72:67, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107

Mih, Walter C.
Mean and Turbulent Velocities for Plane Jet, with John A. Hoopes, HY7:July 72:1275:9050
  TR:138:378

Mikhailova, N. A.
See V. N. Anuchin, ISSF:Aug 72:527

Miki, Sansei
Quality Control in Steel Frame Fabrication of Tall Buildings, State-of-Art Report 3, with Hiroshi Ohba and Toshio Kamei, TB:73:Ib-9-817

Mikluchin, P. T.
General Design and Architectural Aspects of Masonry Buildings, State-of-Art Report 1, TB:73:III-27-959

Milek, William A., Jr.
Standards for Steel Construction in the United States, State-of-Art Report 1, TB:73:II-13-13

Milhollin, Austin B.
See Sol E. Cooper, PP3:July 72:431:9075

Milhous, Robert T.
Sediment Transport System in a Gravel-Bottomed Stream, with Peter C. Klingeman, HYB:Aug 73:293
Dsc, HY11:Nov 72:2043:9305, of "Sediment Transport Measurements in Gravel River", HY11:Nov 71:1817:8521

Mill, Barry J.
Two-Dimensional Analysis of Flow in Jet Pumps, HY7:July 73:1009:9847

Millar, Malcolm A.
See Harald S. Harung, ST6:June 73:1051:9776

Miller, Donald F.
See Kiran M. Vashi, SDNPF:Dec 73:173

Miller, John S.
See Lynn W. Gelhar, HY12:Dec 72:2135:9439

Miller, Lawrence E.
Dsc, Controlling Urban Growth -- But for Whom?, CE:Sept 73:36

Miller, Robert E.
See Ray N. Nitzsche, EM4:Aug 72:867:9130

Millet, Richard A.
Bedrock Verification Program for Davis-Besse Nuclear Power Station, with Douglas C. Moorhouse, SDNPF:Dec 73:89

Milligan, Victor
Session I - Embankments On Soft Ground, PES:73:III-41

Miloh, Touvia
See Frederick A. Locher, HY7:July 73:1187:9823

Miner, Russell M.
See Peter D. Hindley, HY8:Aug 72:1411:9118

Minor, Joseph E.
Failures of Structures Due to Extreme Winds, with Kishor C. Mehta and James R. McDonald, ST11:Nov 72:2455:9324
  Dsc: Herbert S. Saffir, ST7:July 73:1676:9826
  TR:138:517
Failures of Structures Due to Extreme Winds, with Kishor C. Mehta and James R. McDonald, STF:73:49
See Steven R. Rae, PP2:Apr 73:143:9670

Minton, Paul
Unified Nondimensional Formulation for Open Channel Flow, with Rodney J. Sobey, HY1:Jan 73:1:9468
  Dsc: Rupchand M. Advani, HY12:Dec 73:2385:10182

Miropolsky, J. Z.
See A. I. Leonov, ISSP:Aug 72:535

Mirsky, Melvin M.
See Kenneth Ware, SM12:Dec 73:1135:10239

Mirsu, Ovidiu
See Constantin N. Avram, TB:73:III-21-318

Mirza, M. Saeed
See Cheng-Tzu Hsu, TN: ST2:Feb 73:285:9545

Mishra, Govinda Chandra
See Kanakatti Subramanya, HY12:Dec 73:2333:10197

Mishra, P. N.
Dsc, with L. T. Fan and L. E. Erickson, EE6:Dec 73:962:10180, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403

Misterek, Dewayne L.
Dsc, Practical Applications of Rock Mechanics, CE:Feb 73:17

Mistetskii, G. E.
See I. I. Lyashko, EM4:Aug 73:639:9956

Mitchell, G. R.
Loadings on Buildings, State-of-Art Report 2A, TB:73:Ib-5-19

Mitchell, Gregory C.
Analysis and Stability of Floating Roofs, EM5:Oct 73:1037:10101

Mitchell, James K.
Chemico/Osmotic Effects in Fine-Grained Soils, with James A. Greenberg and Paul A. Witherspoon, SM4:Apr 73:307:9678
Clay Chemistry and Slope Stability, with Richard J. Woodward, TN: SM10:Oct 73:905:10042
See Ted S. Vinson, SM6:June 72:579:8947
See W. David Carrier, III, SM10:Oct 73:813:10099

Mitchell, R. J.
Foundations on the Crust of Sensitive Clay Deposits, with Dwight A. Sangrey and G. S. Webb, PES:72:I-1051
  Errata: PES:73:III-178

Mitchell, Ralph
See Thomas D. Waite, SA5:Oct 72:763:9293

Mitten, Loring G.
See C. Anthony Tsou, HY5:May 73:833:9732

Mizell, Buford
Oil Based Fluid Corrosion-Proofs Gas Line, CE:June 72:54
  TR:138:280

Moavenzadeh, Fred
See Joseph Soussou, EM5:Oct 72:1205:9289

Moayeri, Mohammad S.
Flow in Open Channels with Smooth Curved Boundaries, HY12:Dec 73:2217:10194
Potential Flow at a Two-Dimensional Conduit Outlet, with Theodor S. Strelkoff, HY4:Apr 73:653:9680
Seepage Through Dams with Horizontal Toe Drain, SM5:May 72:461:8878
  Dsc: Armand Mayer, SM12:Dec 72:1425:9394
  Clo: SM6:June 73:475:9762
  TR:138:282

Modi, Pashupati N.
Dsc, IR1:Mar 72:165:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987
See Rupchand M. Advani, HY11:Nov 71:1923:8483

Mohraz, Bijan
See William C. Schnobrich, ST10:Oct 72:2327:9227

Mole, Robert Alan
Fiber Reinforced Composites: New Structural Material, CE:Dec 73:72

Molz, Fred J.
Simulation of Post-Irrigation Moisture Movement, IR4:Dec 72:523:9419
TR:138:580

Monaghan, Charles A.
Centralized Treatment of Industrial Wastewaters, with Don Simmons, CE:June 73:85

Monev, Evelin
See Borislav V. Georgiev, ISSF:Aug 72:519

Moneymaker, Berlen C.
Dsc, CE:Aug 72:59, on Subsurface Freezing Used In Tunneling, CE:May 72:37

Monge, Joaquin
Detailing Practice of Cast-In-Place Members and Joints for Reinforced Concrete Buildings, with E. Calcagni, TB:73:III-21-310
See C. Martin Duke, TB:73:Ib-6-255

Monin, A. S.
Turbulence and Diffusion in Stratified Flows, ISSF: Aug 72:87

Monkmeyer, Peter L.
See Stuart G. Walesh, HY9:Sept 73:1401:10018
See Willard A. Murray, HY9:Sept 73:1573:9997

Monro, John C.
See Eric A. Anderson, Preprint No.1879, Jan 73

Monroe, Darrell W.
Chlorine Disinfection in Final Settling Basins, with Donald C. Phillips, SA2:Apr 72:287:8819
TR:138:296

Monsees, Melford E.
Corps of Engineers Promotes Continuing Education, CE:Jan 72:63
TR:138:39

Montgomery, Harry M.
Long-Span Bridge: Utility, Grace at Low Cost, with Roger D. Troxell, CE:May 72:73
Dsc: Felix Kulka, CE:Aug 72:59
TR:138:269

Monti, T. A.
Le Chateau Champlain, TB:73:C-P-278

Moody, F. J.
Fluid Reaction and Impingement Loads, SDNPF:Dec 73:219

Moon, Phillip F.
See Rex K. Rainer, TB:73:Ia-4-701

Moore, Charles A.
Effect of Mica on K_0 Compressibility of Two Soils, SM9:Sept 71:1275:8401
Dsc: Vegesna S. Raju, SM4:Apr 72:439:8801; Kamal Z. Andrawes and Mohamed A. El-Sohby, SM5:May 72:504:8860; Prabhakar J. Pise, SM6:June 72:644:8929; Mosaid M. Al-Hussaini, SM9:Sept 72:958:9158
Clo: SM3:Mar 73:293:9582
TR:138:33

Moore, Peter J.
Lateral Pressures from Soft Clay, with Graham K. Spencer, SM11:Nov 72:1225:9360
TR:138:538

Moore, Raymond E.
See Paul Leung, PO4:Dec 71:749:8564

Moore, Stephen F.
Estimation Theory Applications to Design of Water Quality Monitoring Systems, HY5:May 73:815: 9755

Moore, Walter P., Jr.
Structural Systems, Summary Report -- Part I, TB:73: Ia-3-647

Moore, William W.
Sample Approaches to Optimum Use of Marginal Lands, with Nicholas Chryssafopoulos, SM3:Mar 72:243:8789
TR:138:207

Moorhouse, Douglas C.
Shallow Foundations, PES:73:II-71
See Richard A. Millet, SDNPF:Dec 73:89

Morales, Walter J.
Displacement Bounds for Blast Loaded Structures, EM4:Aug 72:965:9147
TR:138:410

Morcos, Andrew
Seismic Instrumentation for Nuclear Power Plants, with Shih-Lung Chu, PO2:Nov 73:281:10164

Morcos, Andy
See M. P. Singh, SDNPF:Dec 73:263

Moreadith, Frederick L.
Dsc, with Garry J. Patterson, PO2:Nov 73:427: 10111, of "Analysis and Design of Hyperbolic Cooling Towers", PO1:June 72:133:8997

Moreland, Ronald G.
Hutchinson Island Nuclear Containment Structure, with Richard L. Bentley, PO1:May 73:041:9714

Morel-Seytoux, Hubert J.
See Alain Noblanc, HY9:Sept 72:1527:9186

Morfeldt, Carl-Olof
Storage of Oil in Unlined Caverns in Different Types of Rock, RM14:73:409

Morgan, Arthur E.
Dsc, CE:Apr 73:81

Morgan, D. L.
See W. O. Pruitt, IR2:June 72:177:8941

Morgan, Jack R.
Behavior of Sands Under Surface Loads, with Charles M. Gerrard, SM12:Dec 71:1675:8577
Errata: SM3:Mar 73:293:9582
TR:137:958

Morgan, William T.
See Joseph F. Malina, Jr., SA6:Dec 72:819:9437

Morgenroth, Dan
See Richard Crenshaw, TB:73:Ia-4-797

Morgenstern, Norbert R.
See Sivajogi D. Koppula, SM1:Jan 72:79:8674

Morimoto, Thomas T.
Rehabilitating Chicago's Expressways, CE:Dec 72:59
Dsc: Albert C. Strauss, CE:May 73:57
TR:138:541

Morin, Donald A.
Highway and Modal Choice Decisions, TE1:Feb 73: 145:9569

Morin, Thomas L.
Optimal Sequencing of Capacity Expansion Projects, HY9:Sept 73:1605:9972
Dsc, with Richard H. Clough, CO1:Mar 72:137:8748, of "Bidding With Competitive Strategy Models", CO1:Mar 71:113:8008

Morlok, Edward K.
Schedule Planning and Timetable Construction for Commuter Railroad Operations, with Hugo L. Vandersypen, TE3:Aug 73:627:9922
See Jarir S. Dajani, SA6:Dec 72:853:9414

Morris, Charles D.
Dsc, IR1:Mar 72:164:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987

Morris, David
Inclusion of Social Values in Facility Location Planning, UP1:July 72:17:9023
TR:138:167

Morris, J. Carrell
See John E. Delaney, SA1:Feb 72:23:8718
See Kenneth Y. Chen, SA1:Feb 72:215:8710

Morris, M. D.
Clear Communication--Key to Professional Development, PP1:Jan 72:77:8659
TR:138:131
Dsc, CE:Aug 73:20, on Foundation Failure, CE:June 73:89

Morris, Nicholas F.
See George N. Freskakis, EM5:Oct 72:1115:9247
See Robert K. Emerton, EM6:Dec 72:1417:9446

Morris, Robert E., Jr.
Dsc, CE:Dec 72:39, on Design of PVC Water-Distribution Pipe, CE:June 72:70

Morrison, Thomas G.
Lateral Buckling of Constrained Beams, ST3:Mar 72:741:8793
Dsc: Tamirisa V.S.R. Apparao and Pallessena R. Natarajan, ST1:Jan 73:215:9462
Clo: ST7:July 73:1642:9826
TR:138:199

Morse, William L.
Stream Temperature Prediction Under Reduced Flow, HY6:June 72:1031:8962
TR:138:332

Moser, Alma P.
New Design Method for Corrugated Steel Pipe, with Reynold K. Watkins, CE:June 72:61
TR:138:291

Moses, Fred
Reliability of Structural Systems, Preprint No.2023, Apr 73
Safety Analysis for Tall Buildings, State-of-Art Report 5, with Milik Tichy, TB:73:Ib-10-993
See Ronald L. Racicot, EM1:Feb 72:159:8725
See Garret N. Vanderplaats, ST3:Mar 72:671:8795
See Frank Rausche, SM9:Sept 72:917:9220

Moses, Robert
Ecology - Rage and Reason, PP3:July 72:331:9067
Dsc: Adolph J. Ackerman, PP3:July 73:412:9824
TR:138:474

Moshagen, Hermann
Density Front Between Sliding Layers, ISSF:Aug 72:621

Moss, Marshall E.
Dsc, HY11:Nov 73:2165:10109, of "Information Content of Time-Variant Data", HY3:Mar 73:383:9615

Mostafa, M. Gamal
Dsc, with Ramsay M. McDermid, HY10:Oct 71:1777:8407, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual", HY1:Jan 71:101:7786

Mote, C. D., Jr.
Coupled, Nonconservative Stability-Finite Element, with Gerald Y. Matsumoto, EM3:June 72:595:8968
TR:138:286

Motz, Louis H.
Surface Jet Model for Heated Discharges, with Barry A. Benedict, HY1:Jan 72:181:8669
TR:138:136

Moughton, Frank A.
Response of Viscoelastically Restrained Beam, ST7:July 73:1607:9869

Moulton, Lyle K.
See Roger K. Seals, SM4:Apr 72:311:8817

Mozer, John D.
Curved I-Girders with Cross Sectional Deformation, with Tek Sreang Chhim, Preprint No.1922, Apr 73
See Nicholas Mariani, ST4:Apr 73:757:9684

Mt. Pleasant, Russell C.
Implications of Nitrogenous BOD in Treatment Plant Design, with Warren Schlickenrieder, SA5:Oct 71:709:8469
Dsc: Russell L. Culp, SA1:Feb 72:273:8682
TR:138:82

Mueller, August C.
Pilot Study in Flood Plain Management, with John E. Hoffman, HYB:Aug 73:113

Mueller, James A.
Gas Transfer Kinetics of Pure Oxygen System, with Thomas J. Mulligan and Dominic M. DiToro, EE3:June 73:269:9792
Dsc, EE3:June 73:383:9758, of "Oxygen Theory in Biological Treatment Plant Design", SA3:June 72:471:8938

Mukhamedov, A. M.
Origin and Movement of the Bottom Current in the Reservoir of the Nurek Power Station and Its Effects on the Silting of the Reservoir, with N. P. Kulesh and Y. S. Mukhamedov, ISSF:Aug 72:543

Mukhamedov, Y. S.
See A. M. Mukhamedov, ISSF:Aug 72:543

Mukherjee, Dipak
Dsc, HY4:Apr 73:692:9637, of "Conceptual Hydrologic Models for Urbanizing Basins", HY7:July 72:1205:9024

Muktabhant, Chai
See Edward W. Brand, PES:72:I-903

Mulligan, Thomas J.
See James A. Mueller, EE3:June 73:269:9792

Multer, Roger H.
Exact Nonlinear Model of Wave Generator, HY1:Jan 73:31:9467

Mungan, Ihsan
Buckling Stress States of Cylindrical Shells, Preprint No.1994, Apr 73

Munse, William H.
Fatigue and Fracture, Summary Report, TB:73:II-18-818
See R. Srinivasan, TB:73:II-18-814

Munson, Edward D.
Houston Infiltration Abatement Program, EE5:Oct 73:729:10061

Murad, Francis A.
Fatigue of Cover Plated Beams Under Varying Loads, with Conrad P. Heins, Jr., ST4:Apr 72:915:8855
Dsc: Karl H. Frank and John W. Fisher, ST1:Jan 73:221:9462
Clo: ST7:July 73:1643:9826
TR:138:225

Mura Hari, V.
Plane Jet on Sloping Floors Under Finite Submergence, HY9:Sept 73:1449:10027
Dsc, HY8:Aug 73:1280:9895, of "Supercritical Flow Over Sills at Incipient Jump Conditions", HY10: Oct 72:1753:9235

Murff, James D.
Low Velocity Penetration of Kaolin Clay, with Harry M. Coyle, SM5:May 73:375:9737
Prediction Method for Projectile Penetration, with Harry M. Goyle, TN: SM11:Nov 73:1033:10/48

Muris, Rodolfo Del Castillo
See Jose Luis Sanchez Bribiesca, HY11:Nov 73:2151: 10109

Murphree, Edward L.
See Norman L. Scott, CO1:Mar 72:37:8758

Murphy, Benton S.
Dsc, CE:Dec 72:58, on Practical Formulas for Loads and Movements in Battered Pile Foundations (without a computer), CE:June 72:56

Murphy, E. L.
See Conrad P. Heins, Jr., Preprint No.1924, Apr 73

Murphy, Michael A.
Dsc, CE:Aug 72:64, on Engineering and Today's Social Problems, CE:Mar 72:64

Murray, David W.
See Sundaramoorthy Rajasekaran, ST6:June 73:1003: 9774
See Sundaramoorthy Rajasekaran, ST6:June 73:1025: 9773
See Sundaramoorthy Rajasekaran, ST11:Nov 73: 2315:10113
See Sundaramoorthy Rajasekaran, ST12:Dec 73:2423: 10226

Murray, John E.
Dsc, Political Contributions, CE:Nov 73:20

Murray, R. T.
Dsc, SM12:Dec 72:1414:9394, of "Consolidation of Clay Layer in Two Dimensions", SM1:Jan 72:79: 8674
Dsc, SM4:Apr 73:360:9639, of "Embankment Construction On Yielding Sea Bottom", SM7:July 72:727:9066

Murray, Willard A.
Validity of Dupuit-Forchheimer Equation, with Peter L. Monkmeyer, HY9:Sept 73:1573:9997

Murthy, Banavar
Dsc, HY6:June 71:877:8155, of "Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual", HY12:Dec 70:2417:7781

Murthy, G. K. Narasimha
Buckling of Beams Supported by Pasternak Foundation, EM3:June 73:565:9812

Murthy, M. C.S.
See S. Narasimhan, HY5:May 73:847:9689

Murthy, M.V. Krishna
See P.A. Aswatha Narayana, EM1:Feb 72:71:8711

Murthy, Sridhara D.N.
See Archibald N. Sherbourne, EM1:Feb 72:11:8694

Murty, Madugula K.S.
See John B. Kennedy, ST11:Nov 72:2507:9348

Muspratt, Murray A.
Urban Degradation and Building Systems, UP2:Sept 73:235:10003
Urban Transportation, TN: TE1:Feb 73:193:9529

Muthukumaran, S.
End Effects in Models for Seepage Below Weirs, with V. C. Kulandaiswamy, HY3:Mar 72:541:8794
  Dsc: S. H. Nagaraja and V. G. Palniltar, HY1:Jan 73:277:9459
  Clo: HY7:July 73:1159:9823
  TR:138:216
See V. C. Kulandaiswamy, HY11:Nov 73:2131:10109

Muto, Kiyoshi
Earthquake Loading Response, Theme Report, TB: 73:Ib-6-151
Focal Points of the Studies in Our Design, TB:73:C-DM-217

Mutton, Bruce R.
Stiffness Requirements for Lateral Bracing, with Nicholas S. Trahair, ST10:Oct 73:2167:10086

Myer, Donald B.
Cabin John Bridge, Preprint No.1873, Jan 73
Cabin John Bridge - A Washington Landmark, PP3: July 73:353:9885

Myers, Larry A.
Four Win ASCE Zone Scholarships, CE:Sept 73:112

Myers, Lloyd E.
Uniform Irrigation with Low-Pressure Trickle Systems, with Dale A. Bucks, IR3:Sept 72:341:9175
  Dsc: Anthony L. Read and Milton F. Pietsch, IR3:Sept 73:403:9962
  TR:138:436
See Keith R. Cooley, IR3:Sept 73:353:9982

Nabar, Sateesh J.
Dsc, with Hans Gesund, ST5:May 73:953:9693, of "Shear Strength of Continuous Plates", ST5:May 72:961:8876

Nadesamoorthy, T.
Dsc, with Alexander Thomson, HY12:Dec 72:2234: 9391, of "Spatially Varied Flow Over Side-Weirs", HY1:Jan 72:1:8627

Nagaraja, S. H.
Dsc, with V. G. Palniltar, HY1:Jan 73:277:9459, of "End Effects in Models for Seepage Below Weirs", HY3:Mar 72:541:8794

Nahavandi, Amir N.
Matrix Method for Analysis of Hydraulic Networks, with George V. Catanzaro, HY1:Jan 73:47:9472

Najjar, Leonard J.
See Zdenek P. Bazant, ST9:Sept 73:1851:10006

Naka, Takeo
Banquet Remarks at the Tall Building Conference, TB:73:C-521
Design Limitations for Fatigue, State-of-Art Report 5, TB:73:II-18-771
See Minoru Wakabayashi, TB:73:II-16-525

Nakagawa, Kyoji
See C. Martin Duke, TB:73:Ib-6-255

Nakamura, Yuji
See Ben Kato, EM4:Aug 72:891:9091

Nalluswami, M.
Dsc, HY11:Nov 73:2141:10109, of "Hydrothermal Analysis by Finite Element Method", HY11:Nov 72:1983:9372

Napper, Lowell A.
Inspection Practices for Tall Buildings, TB:73:Ib-9-898

Narasimham, Sanivarapu V.
Dsc, with Karl Van Dalen, ST7:July 73:1653:9826, of "Ultimate Design of Hollow Thin-Walled Box Girders", ST7:July 72:1427:9021

Narasimhan, S.
Dsc, with M. C.S. Murthy, HY5:May 73:847:9689, of "Reattaching Flow Downstream of Leaf Gate", HY5:May 72:913:8919

Narayana, P.A. Aswatha
Inviscid Shear Flow with Corner Eddies, with M.V. Krishna Murthy, EM1:Feb 72:71:8711
TR:138:81

Narayanan, Rangaswami
Reattaching Flow Downstream of Leaf Gate, with Alan J. Reynolds, HY5:May 72:913:8919
Dsc: M.H. Abdul Khander and K. Elango, HY5: May 73:845:9689; S. Narasimhan and M. C.S. Murthy, HY5:May 73:847:9689
Clo: HY12:Dec 73:2383:10182
TR:138:301
Theoretical Analysis of Flow Past Leaf Gate, HY6: June 72:993:8942
Errata: HY4:Apr 73:691:9637
TR:138:320

Nasser, George D.
Dsc, Design Of Connections For Precast Prestressed Concrete, CE:Sept 73:38

Nasser, Jacques
Concrete Design Standards in Arab Countries, State-of-Art Report 6, TB:73:III-20-113
Use of Thin Shells for Tall Buildings, TB:73:Ia-3-643

Nassetta, Anthony F.
Structural Steel Tiered Building Frames, State-of-Art Report 3, TB:73:Ia-3-465

Natarajan, Pallessena R.
See Tamirisa V.S.R. Apparao, ST1:Jan 73:215:9462

Nath, John H.
Two-Point Mooring System for Spar Buoy, with Steve Neshyba, WW2:May 71:295:8115
Dsc: Richard F. Dominguez, WW1:Feb 72:118: 8686
Clo: WW1:Feb 73:129:9527
TR:138:17
See Tokuo Yamamoto, HYB:Aug 73:155

Nath, T. K.
See B. Sen, ST1:Jan 72:135:8644

Nawy, Edward G.
Behavior of Fiber Glass Reinforced Concrete Beams, with Gary E. Neuwerth and Charles J. Phillips, ST9:Sept 71:2203:8353
Dsc: Chithradurga S. Chandrasekhar, ST2:Feb 72: 538:8684; Ti Huang, ST2:Feb 72:540:8684; B. Vijaya Rangan, ST3:Mar 72:780:8752; Leon Ru-Liang Wang and Lap-Yan Chu, ST5:May 72: 1202:8861; Arthur F. Kirstein, ST5:May 72: 1206:8861; Filomeno N. Almeida, ST5:May 72: 1207:8861
Clo: ST1:Jan 73:203:9462
TR:137:1011
Offshore Jetport for New York-New Jersey Megalopolis, with Fred C. Koletty, TE2:May 72: 243:8891
TR:138:179

Nayak, Narayan
Dsc, SM12:Dec 72:1425:9394, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM5:May 72:481:8917

Naykki, Pertti
Dsc, CO1:July 73:224:9822, of "Competitive Bidding: The Probability of Winning", CO2:Sept 72:313: 9218

Naylor, David J.
Dsc, with D. Barrie Jones, SM12:Dec 73:1170:10184, of "Constructional Deformations in Rockfill Dam", SM2:Feb 73:139:9560

Nazarian, Hagop N.
Water Well Design for Earthquake-Induced Motions, PO2:Nov 73:377:10176

Neale, L. C.
Model Versus Field Data on Thermal Plumes from Power Stations, with George E. Hecker, ISSF:Aug 72:399

Nece, Ronald E.
Hydraulics of a Gravel-Core Fish Screen, with Milo C. Bell, HYB:Aug 73:31

Neely, Gerald A.
Demonstration Sanitary Landfill in Kansas City, Kans., with Nicholas S. Artz, CE:Oct 72:72
TR:138:468

Neely, William James
Failure Loads of Vertical Anchor Plates in Sand, with John Gordon Stuart and James Graham, SM9:Sept 73:669:9980

Neff, Thomas L.
Qualitative Factors for Evaluating Stability, RM14: 73:311

Negoita, A.
Seismic Analysis of Expanded Clay Lightweight Concrete Frames, with Ion G. Pop, TB:73:III-21-247

Neill, Charles R.
Dsc, HY1:Jan 72:303:8620, of "Sampling Procedures for Coarse Fluvial Sediments", HY8:Aug 71:1165: 8279
Dsc, HY5:May 73:860:9689, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Nelson, Arthur H.
See Oral Buyukozturk, EM3:June 72:581:8970

Nelson, Austin W.
See Denny S. Parker, SA2:Apr 72:305:8810

Nelson, Harold E.
Goal Oriented Systems Approach to Building Fire Safety, TB:73:Ib-8-692

Nelson, Harvey R., Jr.
See Neil W. Schild, IR3:Sept 72:347:9211

Nelson, Ivan
See Melvin L. Baron, Preprint No.1937, Apr 73
See Melvin L. Baron, EM6:Dec 73:1181:10210

Nelson, James C.
Earth Tiebacks Support Excavations 112 Ft. Deep, CE:Nov 73:40

Nelson, Mark F.
Dsc, with Jorge Hildago, ST12:Dec 72:2820:9395, of "Algorithm for Matrix Bandwidth Reduction", ST1: Jan 72:203:8636
See Robert V. Whitman, SM11:Nov 73:997:10175

Nelson, Mark L.
Memoir of, TR:138:637

Nelson, Mark S.
CE People: Roads Come To Remote Areas Of Lesotho Thanks To Young CE, CE:Nov 73:87

Nelson, Paul, Jr.
Mechanical Interpretations for Invariant Imbedding, EM5:Oct 73:957:10094

Nelson, Richard B.
See Bruno Atzori, Preprint No.2091, Oct 73

Nemec, Joseph, Jr.
National Environmental Policy Act of 1969 and Engineering Curriculum, CE:Mar 73:64

Neogy, Birendra N.
Brink Depth for Trapezoidal Broad-Crested Weir, HY12:Dec 72:2171:9427
TR:138:582

Neshyba, Steve
See John H. Nath, WW2:May 71:295:8115

Nethercot, David A.
Buckling of Laterally or Torsionally Restrained Beams, EM4:Aug 73:773:9903
Inelastic Buckling of Monosymmetric I-Beams, TN: ST7:July 73:1696:9828

Neufeld, Ronald D.
Dsc, with Edward R. Hermann, EE6:Dec 73:966: 10180, of "Effects of Iron on Activated Sludge Treatment", EE2:Apr 73:135:9679

Neufville, Richard
Research Needs for Airport Terminal Planning by the Research Committee of the Air Transport Division, TE4:Nov 73:863:10153

Neuhaus & Taylor
2001 Bryan Street Tower, TB:73:C-P-282

Neuman, Shlomo P.
Saturated-Unsaturated Seepage by Finite Elements, HY12:Dec 73:2233:10201

Neumann, Edward S.
Helicopter Emergency Medical Care Delivery Systems, with Eric G. Ohstrom and Frederick J. Wegmann, TE4:Nov 73:827:10155

Neuwerth, Gary E.
See Edward G. Nawy, ST9:Sept 71:2203:8353

Neuzil, Dennis R.
Dsc, CE:Oct 73:34, on "Quo Vadis, ASCE?", CE: June 73:59

Neville, Adam M.
Differential Creep and Shrinkage of Vertical Load-Carrying Elements, State-of-Art Report 2, TB:73: III-25-765

Newby, Frank
Stiffness Related to Nonstructural Elements, TB:73: Ia-12-1141

Newlin, David E.
See Wai F. Chen, TN: ST9:Sept 73:1978:9968

Newman, Henry L.
Land Use Planning, ASC73:Mar 73:87

Newman, Howard S.
See David A. Novick, CE:Jan 72:45

Newman, James E.
Photogrammetric Surveying in Highway Programs, SU2:Nov 71:297:8539
Errata: SU1:Sept 73:134:9965
TR:137:946

Newmark, Nathan M.
External Blast, State-of-Art Report 7, TB:73:Ib-8-661
Seismic Design Spectra for Nuclear Power Plants, with John A. Blume and Kanwar K. Kapur, PO2: Nov 73:287:10142

Ng, C. P.
See Amruthur S. Ramamurthy, EM4:Aug 73:755: 9905

Ni, Chi-Mou
Finite Earthquake-Response of Inelastic Structure, with Lawrence H.N. Lee, EM6:Dec 72:1529:9429
TR:138:549

Nibler, John C.
See Royal H. Brooks, Preprint No.1868, Jan 73

Nichol, John M.
See Allen L. Ely, WW4:Nov 73:415:10137

Nicholls, Jack I.
Dsc, with Clayton E. Lofthus, ST11:Nov 71:2769: 8485, of "Collapse Load Analysis Using Linear Programming", ST5:May 71:1561:8127

Nickell, Robert E.
Direct Integration Methods in Structural Dynamics, EM2:Apr 73:303:9652

Nicol, Kenneth J.
See Earl O. Heady, HY10:Oct 73:1795:10074

Niece, James E.
See Anthony M. Di Gioia, Preprint No.2116, Oct 73

Nihoul, Jacques C.J.
A Simple Model of Entrainment and Thermocline Erosion, ISSF:Aug 72:627

Nikai, Sei N.
See W. H. Arch, TB:73:Ia-4-823

Nikhed, Rajendra P.
See James G. MacGregor, ST11:Nov 72:2351:9351

Nikitin, I. K.
Model of a Stratified Turbulent Wall Layer and Heat and Mass Transfer Processes, with V. I. Zhadan and V. N. Domanov, ISSF:Aug 72:635

Nilson, Arthur H.
See Tony C.Y. Liu, ST5:May 72:1025:8905

Nir, Dov
See Nathan Buras, IR1:Mar 73:43:9586

Nishida, Susumu
See Hiroshi Yoshida, TN: ST7:July 73:1713:9828

Nishikawa, Fujio
See Toshiharu Hisatoku, TB:73:Ia-3-501

Nitzsche, Ray N.
Torsion and Flexure of Curved, Thin-Walled Beams or Tubes, with Robert E. Miller, EM4:Aug 72:867: 9130
Errata: EM3:June 73:601:9759
TR:138:382

Nixon, Paul R.
Coastal California Evapotranspiration Frequencies, with G. Paul Lawless and Gary V. Richardson, IR2:June 72:185:8945
TR:138:279

Niyogi, Sanat K.
Bearing Strength of Concrete--Geometric Variations, ST7:July 73:1471:9853

Nnaji, Soronadi
Flow Resistance from Cylindrical Roughness, with I-pai Wu, IR1:Mar 73:15:9612

Noblanc, Alain
Perturbation Analysis of Two-Phase Infiltration, with Hubert J. Morel-Seytoux, HY9:Sept 72:1527:9186
Dsc: E. G. Youngs, HY7:July 73:1185:9823; Charles B. England, Chin-lien Yen and Robert M. Dixon, HY9:Sept 73:1630:9961; Willem F. Brutsaert, HY9:Sept 73:1632:9961
TR:138:463

Noble, Herbert L
Residual Strength and Landslides in Clay and Shale, SM9:Sept 73:705:10023

Noda, Edward K.
Equilibrium Beach Profile Scale-Model Relationship, WW4:Nov 72:511:9367
Dsc: John J. Earattupuzha and Harihar Raman, WW3:Aug 73:409:9897
TR:138:558

Noor, Ahmed K.
Noncircular Cylinder Vibration by Multilocal Method, EM2:Apr 73:389:9677

Noorany, Iraj
Effect of Sampling on Compressibility of Soft Clay, with Iraj Poormand, TN: SM12:Dec 73:1184:10189

Nordmo, Kyrre P.
Dsc, SM7:July 73:566:9825, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM6:June 72:557:8944

Norris, Dan P.
See Denny S. Parker, SA2:Apr 72:305:8810

Norton, James
Jim Norton, CE Advertising Manager, Retires, CE: Nov 73:83

Norum, Donald I.
Dsc, IR4:Dec 73:513:10183, of "Shape Factors in Irrigation Water Advance Equation", IR3:Sept 72: 443:9212

Notess, Charles B.
Demand Activated Transportation for The Elderly, with Robert E. Paaswell, TE4:Nov 72:807:9320
TR:138:456
Life-Style Factors Behind Modal Choice, TE3:Aug 73:513:9953
Shopping and Work Trips in the Black Ghetto, UP1: July 72:71:9039
TR:138:325
Social Factors in Health Care Systems Planning, with George C. Lee, PP1:Jan 73:59:9493
Trends in Urban Transportation, TE3:Aug 73:655: 9955
Dsc, CE:May 72:40, on Anti-Technology--The New Myth, CE:Jan 72:68

Nouel, Manuel
See Richard Dornhelm, PO1:June 72:29:8975

Novak, Milos
Galloping Oscillations of Prismatic Structures, EM1: Feb 72:27:8692
TR:138:50
Vertical Vibration of Embedded Footings, with Youpele O. Beredugo, SM12:Dec 72:1291:9412
Errata: SM10:Oct 73:896:10038
TR:138:568
Vibrations of Embedded Footings and Structures, Preprint No.2029, Apr 73

Novick, David A.
The Civil Engineer in the Multidisciplinary Design Team, PP2:Apr 72:221:8826
Dsc: John F. Hoban, PP1:Jan 73:126:9460; Donald R. Strombom, PP1:Jan 73:128:9460
TR:138:277
The Civil Engineer of the Future - A Renaissance Man, with Sheldon Schumacher, PP1:Jan 73:9:9489
Dsc: Donald R. Goodkind, PP3:July 73:416:9824; Merle H. Goedjen, PP4:Oct 73:537:10040
Practitioners Teach Students Art of Highway Engineering, with Howard S. Newman and Eben Vey, CE:Jan 72:45
Dsc: L. Lawrence Lewis, CE:Nov 73:24
TR:138:16

See James W. McPhillips, PP2:Apr 72:181:8797

Nussbaum, Herbert
Recent Development of New Austrian Tunneling Method, CO1:July 73:115:9836

Nuzzo, William L.
See Anthony M. DiGioia, PO1:June 72:77:8980

Obert, Leonard
See H. Douglas Dahl, RM14:73:747

Obi, Boniface C.
Soil-Cement Bases Under Thin Bituminous Surfacing, TE2:May 72:167:8871
Dsc: E. Otte, TE2:May 73:424:9691
TR:138:124

O'Connell, P. Enda
Multivariate Synthetic Hydrology: A Correction, TN: HY12:Dec 73:2393:10192

O'Connor, Kevin J.
See Walter D. Pilkey, TN: ST7:July 73:1702:9828

O'Day, D. Kelly
Dsc, CE:Jan 73:59, on Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, CE: Sept 72:54

Odello, Robert J.
Shells for Standard Floor and Roof Elements, with Jay R. Allgood, ST10:Oct 73:1999:10096

Oden, J. Tinsley
Thermo-Plastic Materials With Memory, with Dev R. Bhandari, EM1:Feb 73:131:9554

Odgaard, Jacob
Relative Diffusion in Nonisotropic Turbulence, HY1: Jan 73:239:9503
Errata: HY11:Nov 73:2157:10109

O'Donnell, Terence
See Nazar M. Awan, IR3:Sept 72:459:9167

Offner, Franklin F.
Computer Simulation of Storm Water Runoff, HY12: Dec 73:2185:10216

Oh, Hilario L.
See Neng-Ming Wang, EM4:Aug 73:867:9929

O'Hara, G. J.
Dsc, with Richard A. Skop, ST3:Mar 73:590:9583, of "Dynamic Analysis of Cable Systems", ST8:Aug 72:1817:9127

O'Hargan, Paul T.
The Boundary of the Sovereign, SU1:Sept 73:15:9979

Ohba, Hiroshi
See Sansei Miki, TB:73:Ib-9-817

Ohira, Takuya
Pressurized-Slurry Shields Bore Submarine Tunnels, with Shunta Shiraishi, CE:May 72:55
Errata: CE:Sept 72:94
TR:138:248

Ohstrom, Eric G.
See Edward S. Neumann, TE4:Nov 73:827:10155

Oishi, Satoshi
Environmental Impact Studies of Highways, with Charles H. Flavin, Preprint No.2048, July 73

Okazaki, Clyde
See Anil K. Kar, ST3:Mar 73:321:9601

Olivieri, Vincent P.
Inactivation of Virus in Sewage, with Thomas K. Donovan and Kazuyoshi Kawata, SA5:Oct 71:661:8419
  Dsc: Harvey F. Collins, Robert E. Selleck and George C. White, SA4:Aug 72:664:9077
  TR:138:41
See Karl Longley, EE5:Oct 73:757:10035

Olko, Stephen M.
Legislative Involvement, PP4:Oct 72:491:9278
  TR:138:573

Olson, John B.
See Henry J. Miedema, Preprint No.2026, Apr 73

Olsson, W. A.
See F. A. Donath, RM14:73:189

Oluonye, Peter C.
Dsc, TE4:Nov 72:1074:9309, of "Effect of Load Placement on Rigid Pavement Behavior", TE4:Nov 71:681:8543

O'Neil, Robert S.
Washington D.C.'s Metro--A Progress Report, CE: Apr 72:56
  TR:138:194

O'Neill, Michael W.
Behavior of Bored Piles in Beaumont Clay, with Lymon C. Reese, SM2:Feb 72:195:8741
  Dsc: Vasant N. Vijayvergiya, SM12:Dec 72:1418:9394
  Clo: SM7:July 73:563:9825
  TR:138:197

Ongerth, Jerry E.
See Truett V. DeGeare, SA6:Dec 71:843:8589

Onstott, E. I.
Electroprecipitation of Phosphate from Sewage, with William S. Gregory, Edward F. Thode and Kermit L. Holman, EE6:Dec 73:897:10196

Oran, Cenap
Influence Surfaces for Curved Multibeam Bridges, with Sheng Ching Lin, ST7:July 73:1349:9846
Tangent Stiffness in Plane Frames, ST6:June 73:973:9810
Tangent Stiffness in Space Frames, ST6:June 73:987:9813

Oravec, Ralph J.
See Woodrow W. Rankin, TE2:May 73:405:9745

Ordon, Chester J.
Storm Water Runoff, Preprint No.2032, July 73

Orlob, Gerald T.
Systems Approach to Water Quality Management, with Bill B. Dendy, HY4:Apr 73:573:9660
See Carl W. Chen, PO1:June 72:65:8984

Orman, J. C.
Status of Short Haul Air Transportation, Short Haul Air Transportation Systems Committee, Air Transport Division, ASC73:Mar 73:107

O'Rourke, Michael J.
Dsc, PP4:Oct 73:545:10040, of "An Educator-Practitioner Interaction Program", PP2:Apr 73:259:9674

Orozco, Luis F.
See Arley G. Franklin, SM7:July 73:541:9873

Orsborn, John F.
Predicting Low Flows and Floods from Ungaged Drainage Basins, HYB:Aug 73:383

Ortolano, Leonard
Environmental Impacts of Reservoirs -- A Case Study, HYB:Aug 73:93

Osawa, Yutaka
Observation of Structural Behavior, State-of-Art Report 4, TB:73:Ib-6-213

Osborn, Herbert B.
Management of Ephemeral Stream Channels, with Kenneth G. Renard, IR3:Sept 73:207:10005
Thunderstorm Runoff in Southeastern Arizona, with Emmett M. Laursen, HY7:July 73:1129:9871

Osborne, J. Michael
Marginal Economics Applied to Pipeline Design, with L. Douglas James, TE3:Aug 73:637:9933

Oshier, E. H.
See E. R. Hoskins, RM14:73:299

Ossenbruggen, Paul J.
Steel Column Failure Under Thermal Gradients, with Vinod Aggarwal and Charles G. Culver, ST4:Apr 73:727:9681
See Charles G. Culver, ST4:Apr 73:715:9682

Ostenfeld, Christen
Denmark's Lillebaelt Suspension Bridge, CE:Dec 72:35
  TR:138:526

Ostensen, Raymond J.
See Barclay G. Jones, TN: EM1:Feb 73:233:9528

Ostlund, Lars
Limits of Usefulness, State-of-Art Report 2, TB:73:II-19-841

Otani, Shunsuke
Simulated Earthquake Tests of R/C Frames, with Mete A. Sozen, Preprint No.1976, Apr 73

Otte, E.
Dsc, TE2:May 73:424:9691, of "Soil-Cement Bases Under Thin Bituminous Surfacing", TE2:May 72:167:8871

Ou, Chin-Der
See Adel S. Saada, SM12:Dec 73:1091:10225

Oudheusen, Albert J.
International Standards on Steel, TB:73:II-13-135

Ouellet, Yvon
Effect of Irregular Wave Trains on Rubble-Mound Breakwaters, WW1:Feb 72:1:8693
  Dsc: Per Moller Bruun, WW4:Nov 72:594:9310; Jade Dattatri, WW1:Feb 73:134:9527
  TR:138:119

Overbeek, Norman J.
The Associate Member in ASCE, Committee on Younger Members of the Member Activities Division (PAC), PP1:Jan 72:131:8658
  TR:138:119

Overby, Ragnar
See J. Donald Johnson, SA5:Oct 71:617:8425

Overton, Donald E.
Dsc, HY1:Jan 73:273:9459, of "Obtaining Overland Flow Resistance by Optimization", HY3:Mar 72:429:8773
See Chin-lien Yen, HY1:Jan 73:219:9506
See William J. Gburek, HY9:Sept 73:1433:10026

Overton, W. Scott
See David A. Bella, SA3:June 72:579:8994

Owada, Yoshimasa
See Yoichi Higashi, TB:73:III-21-259

Owen, John A.
Dsc, CE:Nov 72:56, on Pullman Tackles its Flooding Problems, CE:Aug 72:42

Ownbey, Charles R.
Regulation of Low Streamflows, HYB:Aug 73:241

Ozer, E.
Tall Buildings: Major Characteristics, State-of-Art Report 1, with N. Abaya and George C. Driscoll, Jr., TB:73:C-AC14-93
See N. Abaya, TB:73:C-AC14-113

Ozmidov, R. V.
Some Peculiarities of Turbulence in the Stratified Ocean, with V. S. Belyaev, ISSF:Aug 72:595

Paaswell, Robert E.
See Charles B. Notess, TE4:Nov 72:807:9320

Pabst, Arthur F.
See Charles C.S. Song, EE6:Dec 73:785:10209

Packard, Robert G.
Dsc, TE4:Nov 73:959:10110, of "Keyed Joint Performance Under Heavy Loaded Aircraft", TE4: Nov 72:931:9376

Padmanabhan, G.
Dsc, HY12:Dec 72:2243:9391, of "Spillway Gate Vibration on Arkansas River Dams", HY1:Jan 72: 219:8676
See Stuart G. Sriramulu, HY3:Jan 73:269:9459

Paduart, Andre
Current Application of Limit State Philosophy -- State-of-Art Report No. 1, TB:73:III-26-859

Pagan, Alfred R.
An Engineer Looks at Drainage Law, PP4:Oct 72: 535:9255
TR:138:511
New Culvert Carries Creek Underneath Canal, CE: Oct 72:50
TR:138:440

Pagan, Luis Alfonso
Los Manantiales, TB:73:C-P-484

Page, Daniel G.
See Grant S. Anderson, CE:Sept 72:74

Pages, Richard E.
See William D. Alexander, CE:Oct 72:77

Pai, Shi-I
One Dimensional Lunar Ash Flow With and Without Heat Transfer, with Tsuying Hsieh, ISSF:Aug 72: 641

Pal, Anil K.
See Jitendra N. Kar, ST5:May 72:1053:8909

Pal, Shubendu
See Lorne J. Butler, ST5:May 72:989:8874

Palazotto, Anthony N.
Experimental Study of Partially Loaded Plates, with Gary Uthenwoldt and Michael Stankosky, Preprint No.2030, Apr 73
See Lawrence L. Durocher, Preprint No.1997, Apr 73

Palmer, Andrew C.
Settlement of Pipeline on Thawing Permafrost, TE3: Aug 72:477:9090
Dsc: Edwin J. Chamberlain and Paul A. Lilienthal, TE3:Aug 73:678:9896
TR:138:276

Palmer, Robert K.
List of Information Sources for Airport Planners, TE1:Feb 72:131:8721
TR:138:65

Palniltar, V. G.
See S. H. Nagaraja, HY1:Jan 73:277:9459

Pandit, Ganpat S.
Tests of Concrete Columns in Torsion, with Manak B. Mawal, ST7:July 73:1409:9850
Dsc, ST4:Apr 72:940:8802, of "Stability and Load Capacity of Members with No Tensile Strength", ST7:July 71:1913:8253
Dsc, WW3:Aug 72:422:9081, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527
Dsc, ST3:Mar 73:582:9583, of "Structural Safety--A Literature Review, Task Committee on Structural Safety of the Administrative, Committee on Analysis and Design for the Structural Division", ST4:Apr 72:845:8842
Dsc, ST4:Apr 73:791:9640, of "Plastic Collapse of Horizontally Curved Bridge Girders", ST4:Apr 72: 899:8848
Dsc, ST4:Apr 73:793:9640, of "Strength of Fiber-Reinforced Concrete", ST5:May 72:1053:8909
Dsc, ST5:May 73:957:9693, of "Biaxial Stress-Strain Relations for Concrete", ST5:May 72:1025:8905
Dsc, ST7:July 73:1675:9826, of "Total Interaction Method for Torsion Design", ST9:Sept 72:2097: 9209

Pani, B. S.
See Nallamuthu Rajaratnam, HY7:July 72:1101:9009

Pant, Shiva K.
Computer Algorithm for Routing Oversized Trucks, with Frederick J. Wegmann, TE1:Feb 73:151:9570

Pao, H. P.
See Timothy W. Kao, ISSF:Aug 72:581

Papadakis, Constantine N.
Infiltration and Antecedent Precipitation, with Herbert C. Preul, HY8:Aug 73:1235:9940
Testing Methods for Determination of Urban Runoff, with Herbert C. Preul, HY9:Sept 73:1319:9987
University of Cincinnati Urban Runoff Model, with Herbert C. Preul, HY10:Oct 72:1789:9298
Dsc: Vijay P. Singh, HY7:July 73:1194:9823
TR:138:523

Paparoni, Mario
Model Studies of Coupling Beams, State-of-Art Report 3, TB:73:III-24-671

Papp, Remig A.
New Pier in Jamaica Bay, CE:Aug 72:52
TR:138:372

Parimi, S. R.
See M. A. Cohn, EM5:Oct 72:1133:9246

Pariseau, William G.
Support Potential of Hydraulic Backfill, with C. Daniel Kealy, RM14:73:501

Park, Junesun
See Kuang-Han Chu, TN: PO2:Nov 73:441:10115

Park, Robert
Reinforced Concrete Members with Cyclic Loading, with Dudley Charles Kent and Richard A. Sampson, ST7:July 72:1341:9011
TR:138:310
See Roger W.G. Blakeley, ST8:Aug 73:1717:9906

Parker, Denny S.
Floc Breakup in Turbulent Flocculation Processes, with Warren J. Kaufman and David Jenkins, SA1: Feb 72:79:8702
TR:138:164
Tidal Exchange at Golden Gate, with Dan P. Norris and Austin W. Nelson, SA2:Apr 72:305:8810
TR:138:276

Parker, Frank L.
See Edward M. Polk, Jr., HY10:Oct 71:1639:8446
See Jerry L. Anderson, ISSF:Aug 72:469

Parker, Frazier
See James P. Sale, SM12:Dec 73:1077:10240

Parker, Jacob S., Jr.
Dsc, CE:July 73:28, on Residential Community Features Novel Dam and Sewer, CE:May 73:46

Parkhurst, John D.
Oxygen Adsorption in Streams, with Richard D. Pomeroy, SA1:Feb 72:101:8701
Errata: EE1:Feb 73:92:9521
TR:138:156

Parkin, Gene F.
Optimal Design of Wastewater Treatment Systems by Enumeration, with Richard R. Dague, SA6:Dec 72:833:9403
Dsc: Jonathan A. French, EE3:June 73:392:9758; P. Khanna, EE5:Oct 73:748:10035; Masaru Tanaka and Kach Boonyakachon, EE5:Oct 73:749:10035; Andrew C. Middleton and Alonzo W. Lawrence, EE6:Dec 73:960:10180; P. N. Mishra, L. T. Fan and L. E. Erickson, EE6:Dec 73:962:10180
TR:138:513

Parmele, Leslie H.
See J. L. McGuinness, IR2:June 72:207:8943

Parmelee, Richard A.
Designing for Seismic Soil-Structure Interaction, Preprint No.1985, Apr 73
See Raymond J. Krizek, SM12:Dec 72:1347:9421

Parmeter, David L.
Is Management The Answer?, CE:May 73:89
Dsc: Norman D. Falk, CE:Oct 73:26

Parr, Dennis H.
Ultimate Design of Hollow Thin-Walled Box Girders, ST7:July 72:1427:9021
Dsc: Sanivarapu V. Narasimham and Karl Van Dalen, ST7:July 73:1653:9826
TR:138:329

Parrett, Charles
Flood Plain Management in Montana, HYB:Aug 73:85

Parrillo, Thomas P.
See Sudershan Malhotra, SA5:Oct 71:629:8432

Parrott, L. J.
Prediction of Load-Induced Dimensional Changes in Concrete, with J. M. Illston, Preprint No.1935, Apr 73

Parsanejed, S.
See S. Covarrubias, TB:73:C-AC11-63

Parsons, Donald A.
Dsc, with William C. Harmon, HY4:Apr 73:687:9637, of "Flow Processes in Open Channel Bends", HY5:May 72:795:8886

Parsons, Roland M.
System for Control of Construction Quality, CO1:Mar 72:21:8757
TR:138:159

Parsonson, Peter S.
Annual Surveillance of Urban Traffic Growth, TE3:Aug 72:679:9113
TR:138:346

Parti, Ernest W.
See Tung Au, PP4:Oct 72:693:9286

Partridge, Lawrence J., Jr.
Dsc, SA2:Apr 72:467:8800, of "Cost of Residential Solid Waste Collection", SA5:Oct 71:563:8403

Passonneau, Joseph R.
Full Compensation and Transportation Corridor Analysis, TE2:May 73:393:9746
Neighborhood Objectives as Generators of Regional Transportation Networks, UP2:Sept 73:217:10032
Dsc, CE:Sept 72:61, on Cable Suspended Roof for Munich Olympics, CE:July 72:41

Patel, Kanu S.
Computer-Aided Design-Standard Oil of Indiana Building, with Robert D. Logcher, Thomas G. Harmon and Robert J. Hansen, ST4:Apr 73:621:9643

Patel, Narsing M.
Punching Shear Characteristics of RHS Joints, with William J. Graff and Ardis H. White, Preprint No.1963, Apr 73

Patterson, Garry J.
See Frederick L. Moreadith, PO2:Nov 73:427:10111
See Chang Chen, PO2:Nov 73:429:10111

Patton, E. L.
The Trans-Alaska Pipeline Story, TE1:Feb 73:139:9573
Dsc: A. Roger Kelly, TE3:Aug 73:689:9896

Paul, Charles Kendall
Theoretical Weighting of Photogrammetric Equations, SU2:Nov 72:127:9346
Dsc: Hartmut Zieman, SU1:Sept 73:142:9965
TR:138:550

Paulson, Boyd C., Jr.
Man-Computer Concepts for Planning and Scheduling, CO2:Sept 72:275:9204
TR:138:546
Project Planning and Scheduling: Unified Approach, CO1:July 73:45:9830

Pauw, Adrian
Tensile Ties in Precast Concrete Systems, TB:73:III-23-623
See Bohdan Lewicki, TB:73:III-21-171

Pavoni, Joseph L.
See Wayne F. Echelberger, Jr., SA5:Oct 71:721:8472

Payne, Harold J.
Freeway Traffic Control and Surveillance Model, TE4:Nov 73:767:10124

Payton, Aubrey E.
Dsc, with Audrey P. Rabb, CO1:July 73:218:9822, of "Pertinent Techniques for Compacting Concrete", CO2:Sept 72:173:9181

Pazwash, Hormoz
Fluid-Dynamic Consideration of Bottom Materials, with James M. Robertson, HY9:Sept 71:1317:8374
Dsc: Robert L. McFall, HY4:Apr 72:728:8799
Clo: HY12:Dec 72:2222:9391
TR:138:18
See W. Hall C. Maxwell, HY4:Apr 73:637:9675

Pearson, James R.
Impact Statements -- Present and Potential, PP4:Oct 73:449:10066

Peattie, Kenneth R.
Dsc, TE3:Aug 73:685:9896, of "Current Methods For Improved Tire-Pavement Interaction", TE4:Nov 72:915:9347
Dsc, TE3:Aug 73:688:9896, of "Dynamic Response of Model Pavement Structure", TE4:Nov 72:1005:9363

Peck, D. A.
See R. P. Kassawara, SDNPF:Dec 73:73

Peck, Ralph B.
Soil-Structure Interaction, PES:73:II-145

Soil-Structure Interaction -- Opening Remarks, PES: 73:III-249
See D. Joseph Hagerty, SM11:Nov 71:1513:8497

Pecknold, David A.
See William C. Schnobrich, ST8:Aug 72:1885:9079
See William C. Schnobrich, ST10:Oct 72:2327:9227
See Frank R. Hand, ST7:July 73:1491:9860

Peddieson, John, Jr.
Finite Deflections of Circular Membranes, TN: EM3: June 73:634:9765

Peddle, Thorp and Walker
AMP Centre, TB:73:C-P-402
Bank of New South Wales, TB:73:C-P-408
Exchange Centre, TB:73:C-P-406
Royal Exchange Building, TB:73:C-P-414

Pedersen, Flemming Bo
Gradually Varying Two-Layer Stratified Flow, HY1: Jan 72:257:8679
Errata: HY3:Mar 73:534:9580
TR:138:155
Gradually Varying Two-Layer Stratified Flow in Fiords, ISSF:Aug 72:415
See Frank Engelund, HY3:Mar 73:405:9588

Pedersen, Pauli
Optimal Joint Positions for Space Trusses, ST12:Dec 73:2459:10199

Peer, Shlomo
Economic Analysis of Housing Construction Methods, with Abraham Warszawski, CO2:Sept 72: 287:9166
TR:138:355

Peir, Jong-Cherng
Spatial and Temporal Variability of Live Loads, with C. Allin Cornell, ST5:May 73:903:9747

Pellegrini, Sergio E.
Construction in South America, State-of-Art Report 5, TB:73:Ia-12-1135

Pendakur, V. Setty
Dsc, with Henry Ropertz, UP1:Mar 73:121:9584, of "Games for Simulating Urban Development Process", UP2:Dec 71:149:8568

Penman, Alexander
Winnipeg Freezes Sludge, Slashes Disposal Costs 30 Fold, CE:Nov 73:65

Penman, Arthur
Constructional Deformations in Rockfill Dam, with Andrew Charles, SM2:Feb 73:139:9560
Dsc: Nigel A. Skermer, SM8:Aug 73:644:9892; David J. Naylor and D. Barrie Jones, SM12: Dec 73:1170:10184

Perchat, J.
Serviceability Factors, State-of-Art Report 5, TB:73: III-26-923

Perloff, William H.
Embankments on Soft Ground -- Reporter's Summary, PES:73:III-49

Perrine, Richard L.
See Richard M. Clever, HY3:Mar 73:485:9611

Perrone, Nicholas
On the Sources of Computer Software, Preprint No.2022, Apr 73

Perrott, Lyon, Timlock & Kesa
Nauru House, TB:73:C-P-428

Perry, Peter G.
Rapid Design of Orthotropic Floor Beams, with Conrad P. Heins, Jr., ST11:Nov 72:2491:9326
TR:138:526
See Conrad P. Heins, Jr., Preprint No.1925, Apr 73

Perumalswami, Parambakatoor R.
Earthquake Hydrodynamic Forces on Arch Dams, with Lakshmidhar Kar, EM5:Oct 73:965:10060

Peterka, Alvin J.
Dsc, HY11:Nov 73:2149:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Petermann, Thomas E.
Railroad Crossings at Berwick Bay, CO1:July 73:93: 9833

Petersen, C. F.
See D. A. Shockey, RM14:73:709

Peterson, Allan W.
See Richard H. Cooper, HY5:May 72:827:8873

Peterson, Carl R.
Force Reduction in Excavation Devices, CO1:July 73:21:9845

Peterson, D. E.
Thermal Capacity of Our Nation's Waterways, with John C. Sonnichsen, Jr., S. L. Engstrom and P. M. Schrotke, PO1:May 73:193:9736

Peterson, Dean F.
See J. K. Virmani, HYB:Aug 73:73

Peterson, Edward W.
Tunnel Survey and Tunneling Machine Control, with Peter Frobenius, SU1:Sept 73:21:10008

Peterson, George L.
See Harvey O. Haack, UP2:Dec 71:149:8568
See Gorman Gilbert, TE3:Aug 72:691:9112

Peterson, Theodore I.
See Pran N. Wahi, SA5:Oct 72:693:9253

Petersson, Hans
See Gunnar Karrholm, TB:73:III-21-302

Petroni, Ricardo V.
See Chiang C. Mei, WW2:May 73:209:9700

Petrov, V. P.
See V. N. Anuchin, ISSF:Aug 72:527

Pettersson, Ove
Fire Engineering Design of Tall Buildings, State-of-Art Report 5B, TB:73:Ib-8-585

Peyrot, Alain H.
Probabilistic Response of Nonlinear Buildings During Earthquakes, ST11:Nov 72:2363:9328
TR:138:531

Pfaffinger, Dieter D.
Column-Plate Interaction in Flat Slab Structures, ST1:Jan 72:307:8670
Dsc: A. Akesson, ST12:Dec 72:2825:9395
Clo: ST6:June 73:1324:9763
TR:138:134

Pfeffer, Jerry L.
See Reed H. Winslow, TE4:Nov 72:757:9354

Pfeffermann, O.
Reinforced Masonry and the Pathology of Masonry, TB:73:III-27-1088

Pfister, Hans J.
Industry Builds on a Refuse Dump, CE:Nov 72:50
TR:138:487

Phillips, Charles J.
See Edward G. Nawy, ST9:Sept 71:2203:8353

Phillips, Donald C.
See Darrell W. Monroe, SA2:Apr 72:287:8819

Phillips, James W.
Contact Stresses in Twisted Wire Cables, with George H. Costello, EM2:Apr 73:331:9676

Phillips, Robert D.
Phillips Assumes Meetings Post, CE:Sept 73:110

Phillips, Robert V.
Brittle Fracture of Steel Pipe Analyzed, with Stephen M. Marynick, CE:July 72:70
  Dsc: James F. Sato, CE:Sept 72:57
  TR:138:345

Picard, Andre
See Arthur D. Edwards, ST12:Dec 72:2687:9428

Picardi, E. Alfred
Standard Oil of Indiana Building in Chicago, TB:73: C-P-244
Structural System- Standard Oil of Indiana Building, ST4:Apr 73:605:9642

Pickering, Dennison J.
Drained Liquefaction Testing in Simple Shear, TN: SM12:Dec 73:1179:10189

Pickett, Richard M., Jr.
See Moshe F. Rubinstein, TN: EM2:Apr 73:429:9641

Pickford, John
See Y. R. Reddy, SA4:Aug 72:609:9093
See Y. R. Reddy, EE3:June 73:177:9794

Pierce, L. F.
Oregon Gets a Segmental Post-Tensioned Bridge, CE:Mar 72:67
  TR:138:151

Pierce, Louis D.
See Robert W. Kwiatkowski, PO1:May 73:205:9738

Piercy, John P.
Dsc, CE:Mar 73:89, on Specialty Registration for Engineers, CE:Dec 72:32

Pietsch, Milton F.
See Anthony L. Read, IR3:Sept 73:403:9962

Pikarsky, Milton
The Legislation of Balance, TE3:Aug 73:483:9938

Pilkey, Walter D.
Lumped Parameter Model for Stability Analysis, with Kevin J. O'Connor, TN: ST7:July 73:1702:9828

Pillsbury, Arthur F.
Environmental Quality in California, CE:July 73:50
  Dsc: Raphael G. Kazmann, CE:Dec 73:22

Pincince, Albert B.
See E. J. List, HY10:Oct 73:1888:10037

Pincus, George
See Abolhassan Vafai, ST6:June 73:1205:9788

Pingry, David E.
Multigoal Water Quality Planning Model, with Andrew B. Whinston, EE6:Dec 73:909:10208

Pinjarkar, Suresh G.
See Kuang-Han Chu, ST10:Oct 71:2481:8453

Pinkayan, Subin
Routing Storm Water Through a Drainage System, HY1:Jan 72:123:8642
  Errata: HY12:Dec 72:2243:9391
  TR:138:102

Pinkham, C. W.
Evaluation of Earthquake Damage, State-of-Art Report 5, TB:73:Ib-6-229

Pinkham, Richard E.
Novel Features on Lindenwold Line, TE2:May 72: 367:8892
  TR:138:187

Pise, Prabhakar J.
Dsc, SM6:June 72:644:8929, of "Effect of Mica on K_o Compressibility of Two Soils", SM9:Sept 71: 1275:8401
See Herbert Breth, SM8:Aug 73:617:9919

Plate, Erich J.
See Aziz F. Eloubaidy, HY1:Jan 72:153:8651

Platou, Knut S.
Dsc, CE:Jan 73:73, on Elastomeric Bridge Bearings, CE:May 72:46

Pletta, Dan H.
The Making of a "Pro" -- A Faculty Viewpoint, Preprint No.2063, Oct 73

Plodowski, Thomas F.
Breakwater Built With Concrete Piles, CE:Apr 72:80
  TR:138:219

Plude, George H.
See Frederick E. Krauss, WW4:Nov 72:549:9389

Podolny, Walter, Jr.
Cable Connections in Stayed Girder Bridges, Preprint No.1933, Apr 73
Historical Development of Cable-Stayed Bridges, with John F. Fleming, ST9:Sept 72:2079:9201
  Dsc: Stanley W. Woods, ST4:Apr 73:797:9640; Thomas C. Kavanagh, ST7:July 73:1669:9826
  TR:138:458

Poertner, Herbert G.
Better Storm Drainage Facilities at Lower Cost, CE: Oct 73:67

Polak, Jean H.
Architectural Elements in European Practice, State-of-Art Report 2A, TB:73:Ia-12-1079

Polder, Jaap v.d.
See Hemmat H. Safwat, HY11:Nov 73:1933:10158

Polincsik, Stephen
See Eugene I. Chaiken, CE:May 73:49

Polk, Edward M., Jr.
Cooling Water Density Wedges in Streams, with Barry A. Benedict and Frank L. Parker, HY10:Oct 71:1639:8446
  Dsc: John Eric Edinger and Norio Yanagida, HY2:Feb 72:412:8681; W. Hall C. Maxwell, HY8:Aug 72:1459:9076
  Clo: HY3:Mar 73:531:9580
  TR:138:37

Polychrone, D. A.
Programmable Calculators: A Consultant Reports, with Dieter Franz, CE:Nov 72:44
  TR:138:483

Pomeroy, Richard D.
See John D. Parkhurst, SA1:Feb 72:101:8701

Pommeret, M.
Vertical Wall Joints, TB:73:III-21-277

Pompidou, George
Comments in Favor of "La Defense" Project, TB:73: Ia-1-277

Pona, Marian
Design of a Hydroelectric Powerplant in an Area of High Seismicity, with A. B. Arnold, Preprint No.1959, Apr 73
Seismic Design Criteria for Hydroelectric Plant, with A. B. Arnold, PO2:Nov 73:305:10145

Poole, Allan L.
See Charles V. Gibbs, SA3:June 72:491:8960

Poon, Calvin P.C.
Competitive Growth of Sewage Organisms, with Kuang K. Wang, EE4:Aug 73:489:9944
Metal Toxicity to Sewage Organisms, with Kiran L. Bhayani, SA2:Apr 71:161:8020
Dsc: Malay Chaudhuri and Richard S. Engelbrecht, SA6:Dec 71:944:8555
Clo: EE1:Feb 73:87:9521

Poormand, Iraj
See Iraj Noorany, TN: SM12:Dec 73:1184:10189

Pop, Ion G.
See A. Negoita, TB:73:III-21-247

Pope, Richard G.
Dsc, SM11:Nov 73:1020:10112, of "Bearing Capacities by Plasticity Theory", SM1:Jan 73:25:9497

Popelar, Carl H.
Dynamic Stability of Thin-Walled Column, EM3:June 72:657:8978
TR:138:304

Popoff, Alexander, Jr.
Stability of Precast Concrete Systems Buildings, State-of-Art Report 5, TB:73:III-23-571

Popov, Egor P.
Additional Items Affecting Frame Strength, TB:73:II-16-595
Cyclic Loading of Steel Beams and Connections, with Vitelmo V. Bertero, ST6:June 73:1189:9790
Errata: ST12:Dec 73:2506:10185
Inelastic Behavior Under Cyclic Loading, TB:73:II-15-383
Low-Cycle Fatigue of Connections and Details, State-of-Art Report 3, TB:73:II-18-741
Dsc, with James L. Tocher, ST11:Nov 72:2626:9307, of "Collapse Load Analysis Using Linear Programming", ST5:May 71:1561:8127
See Parviz Sharifi, EM5:Oct 71:1397:8417
See Vitelmo V. Bertero, ST5:May 72:1137:8915

Popovich, Michael L.
Cost-Effectiveness Analysis of Disposal Systems, with Lucien Duckstein and Chester C. Kisiel, EE5:Oct 73:577:10104

Popper, Steven H.
Beaver Valley Containment Structure, PO1:May 73:051:9709

Porter, Dennis
See Jerry B. Schneider, Preprint No.2040, July 73

Porter, Lloyd R.
Geothermal Resource Investigations, Preprint No.1875, Jan 73
Geothermal Resource Investigations, HY11:Nov 73:2097:10136

Posey, Chesley J.
Dsc, with Milo S. Ketchum, PP1:Jan 73:128:9460, of "Aesthetics -- Part of Civil Engineering", PP2:Apr 72:275:8850
Dsc, HY5:May 73:859:9689, of "Effects of Inflow Condition on Hydraulic Jump", HY8:Aug 72:1367:9088
Dsc, EM4:Aug 73:883:9894, of "Experiments on Unstable Vortices", EM3:June 72:539:8948
Dsc, HY8:Aug 73:1278:9895, of "Supercritical Flow in Rectangular Expansions", HY9:Sept 72:1691:9216

Posokhin, M. B.
Design and Trends in the Development of Tall Buildings in Moscow, State-of-Art Report 7, TB:73:Ia-1-183

Potts, Richard Reed
Dsc, PP3:July 72:466:9001, of "Pollution, Politics and Protest", PP1:Oct 71:23:8468

Poulos, Harry G.
Analysis of Piles in Soil Undergoing Lateral Movement, SM5:May 73:391:9740
Behavior of Laterally Loaded Piles: III -- Socketed Piles, SM4:Apr 72:341:8837
Errata: SM2:Feb 73:221:9524
TR:138:243
Load Settlement Prediction for Piles and Piers, SM9:Sept 72:879:9170
Errata: SM8:Aug 73:635:9892
TR:138:439
See David J. D'Appolonia, SM10:Oct 71:1359:8438

Powell, Harry R.
Multiple Use of City Transportation Corridor, with F. G. Alden, TE3:Aug 72:633:9096
TR:138:285

Power, Edward H.
Behavior and Design of Shingle Joints, with John W. Fisher, ST9:Sept 72:1923:9200
TR:138:454

Powers, James J.
Underwater Bridge Inspection, with Thomas J. Collins, CE:Mar 73:66

Pracy, George Wesley
Memoir of, TR:138:638

Praeger, Emil H.
Emil Praeger, ASCE Honorary Member, Dies, CE:Dec 73:81

Prandle, David
See Donald M. McDowell, WW2:May 72:225:8866

Prasad, B.
See Yudhbir, SM11:Nov 73:1023:10112

Pratt, Christopher John
Bagnold Approach and Bed-Form Development, HY1:Jan 73:121:9469
Ripple and Dune Phases in a Narrowly Graded Sand, with Kenneth V.H. Smith, HY5:May 72:859:8912
TR:138:296

Pratt, Harold K.
Foundations and Abutments -- Bennet and Mica Dams, with Robert C. McMordie and Robert M. Dundas, SM10:Oct 72:1053:9290
TR:138:493

Preece, F. Robert
Inspection Practices, State-of-Art Report 7, TB:73:Ib-9-867

Preul, Herbert C.
See Constantine N. Papadakis, HY10:Oct 72:1789:9298
See Constantine N. Papadakis, HY8:Aug 73:1235:9940
See Constantine N. Papadakis, HY9:Sept 73:1319:9987

Price, Bobby E.
Digital Computers in Circular Culvert Design, with Frank D. Masch, TE3:Aug 72:547:9117
TR:138:369

Price, Kenneth S.
Surface Aerator Interactions, with Richard A. Conway and Albert H. Cheely, EE3:June 73:283:9797

Price, Stanley P.E.
See Joan B. Barriage, TE1:Feb 73:43:9544

Principe, Francis J.
Quality Concrete -- How Can You Tell?, State-of-Art Report 2A, TB:73:Ib-9-807

Pritchett, E. Edd
See George W. Reid, SA4:Aug 71:479:8329

Pritchett, Susan
See George W. Reid, SA4:Aug 71:479:8329

Protonotarios, John N.
See Robert V. Whitman, SM11:Nov 73:997:10175

Pruitt, W. O.
Central California Evapotranspiration Frequencies, with Sergius von Oettingen and D. L. Morgan, IR2: June 72:177:8941
  TR:138:251

Puckett, Hal K.
Houston Airport's Low Cost People Mover, with James C. Williamson, Preprint No.2047, July 73

Pugsley, Edmond B.
Dsc, SA5:Oct 72:806:9225, of "Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division", SA2:Apr 72:299:8833

Pullen, Edward J.
See Sidney H. Tanner, WW4:Nov 73:459:10171

Purdie, Robert W.
See Lloyd C. Fowler, TE4:Nov 72:969:9380

Puttaramaiah, Ganakaloty
See Pazhayannur P. Vaidyaraman, HY7:July 73:1160:9823

Pyatt, Edwin E.
See George R. Grantham, SA5:Oct 71:569:8429

Pybus, P. J.
See A. J. Clayton, CE:Sept 72:103

Pyrkin, I. G.
See V. N. Anuchin, ISSF:Aug 72:527

Qasim, Syed R.
Advanced Waste Treatment System for Naval Vessels, with Neil L. Drobny and Alan Cornish, EE5:Oct 73:717:10098

Quetin, B.
See Ch. Blanchet, WW4:Nov 72:561:9387

Quick, Ray S.
Dsc, HY5:May 73:853:9689, of "Start-up Pressures in Short Pump Discharge Lines", HY7:July 72:1117:9014

Quigley, Robert M.
Oxidation and Heave of Black Shale, with James E. Zajic, Edward McKyes and Raymond N. Yong, TN: SM5:May 73:417:9703

Quillem, Michael J.
Management System for Campus Traffic Planning, with Jason C. Yu, TE4:Nov 72:769:9355
  Errata: TE3:Aug 73:688:9896
  TR:138:527

Quimpo, Rafael G.
Link Between Stochastic and Parametric Hydrology, HY3:Mar 73:461:9602
Unity of Stochastic and Deterministic Models in Hydrology, Preprint No.1897, Jan 73

Quinn, Alfred O.
Photogrammetry Aids Solution of Environment Problems, SU1:July 72:87:9044
  TR:138:228

Quinnan, Stephen
Dsc, TE2:May 73:426:9691, of "Forecasting Regional Travel on Regional Highway Network", TE2:May 72:209:8885

Qureshi, M. Mohsin
See Roman W Szechowycz, HY9:Sept 73:1551:10033

Rabb, Audrey P.
See Aubrey E. Payton, CO1:July 73:218:9822

Rachford, Thomas M.
See John Borrelli, EE4:Aug 73:517:9941

Racicot, Ronald L.
Filtered Poisson Process for Random Vibration Problems, with Fred Moses, EM1:Feb 72:159:8725
  TR:138:110

Radcliffe, Allen B., Jr.
Dsc, CE:Sept 73:32, on "Quo Vadis, ASCE?", CE: June 73:59

Radosevich, G. E.
Water Conveyance: Laws, Organization and Efficiency, Preprint No.1906, Jan 73

Rae, Steven R.
Early Engineering in the American Southwest, with Joseph E. Minor, PP2:Apr 73:143:9670

Rafeiner, Fritz
Architectural Criteria of Tall Buildings in Germany and Europe, State-of-Art Report 2B, TB:73:Ia-12-1095
Architectural Criteria of Tall Buildings in Germany and Europe, TB:73:Ia-12-1151

Ragan, Robert M.
Kinematic Wave Nomograph for Times of Concentration, with J. Obiukwu Duru, HY10:Oct 72:1765:9275
  Dsc: Arie Ben-Zvi, HY7:July 73:1189:9823; Jong-Song Chien, HY7:July 73:1191:9823
  TR:138:506

Rahman, Mohammad A.
Damage to Karnafuli Dam Spillway, HY12:Dec 72:2155:9452
  Dsc: James L. Sherard, HY11:Nov 73:2148:10109; Alvin J. Peterka, HY11:Nov 73:2149:10109; Jose Luis Sanchez Bribiesca and Rodolfo Del Castillo Muris, HY11:Nov 73:2151:10109; A. L. Swami and A. K.M. Jilani, HY11:Nov 73:2152:10109; Avittathur Achyuthan and Viswanathan Sethuraman, HY11:Nov 73:2153:10109
  TR:138:596

Raichlen, Fredric
See Jiin-Jen Lee, WW3:Aug 72:311:9094

Rainer, Rex K.
Safety Practices, State-of-Art Report 3, with Phillip F. Moon, TB:73:Ia-4-701

Rains, Charles P.
Mechanical Excitation of Offshore Tower Model, with Subrata K. Chakrabarti, WW1:Feb 72:35:8713
  Errata: WW1:Feb 73:136:9527
  TR:138:172

Rajagopalan, K. S.
Total Interaction Method for Torsion Design, with Umakanta Behera and Phil M. Ferguson, ST9:Sept 72:2097:9209
  Dsc: Ganpat S. Pandit, ST7:July 73:1675:9826
  TR:138:467

Rajaraman, A.
Dsc, ST4:Apr 73:791:9640, of "Multicell Curved Girder Model Studies", ST4:Apr 72:831:8835

Dsc, ST5:May 73:952:9693, of "Nonlinear Stress Analysis of Reinforced Concrete", ST4:Apr 72:885:8845

Rajaratnam, Nallamuthu
Turbulent Compound Annular Shear Layers, with B. S. Pani, HY7:July 72:1101:9009
Dsc: Leo E. Fink, HY5:May 73:850:9689
Clo: HY12:Dec 73:2385:10182
TR:138:350

Rajasekaran, Sundaramoorthy
Coupled Local Buckling in Wide-Flange Beam-Column, with David W. Murray, ST6:June 73:1003:9774
Finite Element Solution of Inelastic Equations, with David W. Murray, ST6:June 73:1025:9773
Incremental Finite Element Matrices, with David W. Murray, ST12:Dec 73:2423:10226
Dsc, with David W. Murray, ST11:Nov 73:2315:10113, of "Finite Deformation of Biaxially Loaded Columns", ST12:Dec 72:2647:9407

Rajendra, R. Clement S.
See Eric F.P. Burnett, ST9:Sept 72:1943:9207

Raju, Vegesna S.
Dsc, SM4:Apr 72:439:8801, of "Effect of Mica on K_0 Compressibility of Two Soils", SM9:Sept 71:1275:8401

Rallings, R. A.
Dsc, PES:73:III-131, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
Dsc, PES:73:III-131, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Ramachandran, Jayaraman
Frequency Analysis of Tapered Orthotropic Plates, EM1:Feb 72:1:8696
TR:138:68

Ramakrishnan, Trichinopoly K.
Dsc, HY10:Oct 72:1876:9222, of "Cavitation in Horizontal Pipelines Due to Water Hammer", HY10:Oct 71:1585:8440

Ramakrishnan, Venkataswamy
See Shu-t'ien Li, WW4:Nov 71:647:8527

Ramamurthy, Amruthur S.
Effect of Blockage on Steady Force Coefficients, with C. P. Ng, EM4:Aug 73:755:9905

Raman, Harihar
Dsc, with T. C. Gopalakrichnan, WW2:May 73:290:9694, of "Analysis of Floating Plate Under Ocean Waves", WW2:May 72:177:8889
See John J. Earattupuzha, WW3:Aug 73:409:9897
See John J. Earattupuzha, WW3:Aug 73:410:9897

Ramanatha Iyer, T. S.
Extension Tests on Soft Clays Without Membranes, TN: SM6:June 73:486:9815

Ramanathan, B.
Dsc, SM12:Dec 72:1408:9394, of "Behavior of Crossed Beams on Elastic Foundations", SM1:Jan 72:1:8626

Ramani, Dhamo T.
See V. James Meyers, ST11:Nov 72:2381:9323

Rama Rao, B. S.
Seepage into a Sheet Pile Cofferdam, with J. Visweswara Rao, HY9:Sept 73:1515:10001

Rampal, Kunwar K.
Post Block Aerial Triangulation with Height Constraint, SU1:Sept 73:79:9976
Space Resection from Collinearity Conditions, SU2:Nov 71:205:8520
Dsc: Santosh K. Mahajan, SU2:Nov 72:236:9308
Clo: SU1:Sept 73:134:9965
TR:138:92

Rampetsreiter, Robert H.
See Kuang-Han Chu, ST12:Dec 72:2701:9455

Ramsay, K. A.
Dsc, CE:Mar 73:51, on Design of PVC Water-Distribution Pipe, CE:June 72:70

Ramseier, Roy E.
Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division, SA5:Oct 72:707:9237
Dsc: Thiruvenkatachari Viraraghavan, EE4:Aug 73:562:9893
TR:138:461

Ramsey, Robert
See Richard Crenshaw, TB:73:Ia-4-797

Ramu, Kikkeri L.V.
Dsc, HY3:Mar 73:541:9580, of "River Bed Degradation After Closure of Dams", HY4:Apr 72:591:8814
Dsc, HY8:Aug 73:1272:9895, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Rana, Saeed A.
Analysis of Sediment Sorting in Alluvial Channels, with Daryl B. Simons and Khalid Mahmood, HY11:Nov 73:1967:10168

Randall, John D.
The Wainwright Building, TB:73:C-P-352

Raney, Donald C.
Dissolved Oxygen Improvement by Hydroelectric Turbine Aspiration, with Terry G. Arnold, PO1:May 73:139:9707

Rangan, B. Vijaya
Lower Bound Solutions for Continuous Orthotropic Slabs, ST3:Mar 73:443:9617
Dsc, ST3:Mar 72:780:8752, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71:2203:8353

Ranga Raju, K. G.
Dsc, with S. J. Sahasrabudhe and Ihsan Ahmad, HY12:Dec 72:2224:9391, of "Characteristics of Flow Weirs of Finite Crest Width", HY11:Nov 71:1807:8515

Rankin, Woodrow W.
Allocation and Apportionment of Highway Funds, with Ralph J. Oravec, TE2:May 73:405:9745

Rankine, John
Creep, Shrinkage and Temperature Effects, Summary Report, TB:73:III-25-831

Rantz, Saul E.
Dsc, HY11:Nov 73:2154:10109, of "Hydraulic Roughness of Ice Covers", HY1:Jan 73:111:9498

Rao, H. S.
See D. Bree, HY3:Mar 73:540:9580

Rao, Kanakapura S. Subba
Improved Behavior of Bell-Bottomed Poles, with H. V. Eswaraiah, PO1:May 73:155:9708

Rao, N. Bhavanishankar
Dsc, SM7:July 73:568:9825, of "Embankment Construction On Yielding Sea Bottom", SM7:July 72:727:9066

Rao, Palepu V.
Dsc, HY7:July 73:1172, of "Boundary Layer Effects on Hydraulic Jump Location", HY7:July 72:1127:9007

Rao, Ramachandra A.
Conceptual Hydrologic Models for Urbanizing Basins, with Jacques W. Delleur and B. S.P. Sarma, HY7:July 72:1205:9024
  Dsc: Dah-Cheng Woo, HY3:Mar 73:549:9580; Dipak Mukherjee, HY4:Apr 73:692:9637; Michael J. Hall, HY7:July 73:1173:9823
  TR:138:362
Dsc, with Ismail T. Kisisel and Jacques W. Delleur, HY6:June 72:1082:8925, of "Mechanics of Sheet Flow Under Simulated Rainfall", HY9:Sept 71:1367:8373
See Ismail T. Kisisel, EM1:Feb 73:31:9535

Rao, S. S.
Dsc, EM4:Aug 73:884:9894, of "Vibrations of Elastically Connected Ring Systems", EM4:Aug 72:777:9092

Raphael, Jerome M.
Dsc, ST8:Aug 72:1881:9079, of "Temperature Rises in Low-Heat Cement Concrete", ST12:Dec 71:2807:8588

Rapp, III, Ira H.
See David J. McGill, TN: EM3:June 73:629:9765

Rasmussen, Jack F.
Sedimentation Effects of Hydroelectric Development, PO2:Oct 72:313:9254
  TR:138:469

Rasmussen, James L.
Cloud Seeding Interpreted Through Atmospheric Water Balance, IR4:Dec 72:585:9413
  TR:138:562

Rassam, Paul R.
Analytical Estimation of Transit Access Impedances, with Raymond H. Ellis, TE2:May 72:191:8884
  TR:138:154

Ratay, Robert T.
Dsc, ST9:Sept 71:2444:8348, of "Thin Aluminum Shear Webs", ST4:Apr 71:1021:8048

Rathbun, Ronald E.
Dsc, HY9:Sept 72:1733:9156, of "Wind Shear-Turbulence and Reaeration Coefficient", HY1:Jan 72:153:8651

Raudkivi, Arved J.
Dsc, HY12:Dec 71:2089:8552, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual", HY1:Jan 71:101:7786

Raus, Juri
Federal Research in Urban Traffic Control, with Philip J. Tarnoff, TE4:Nov 72:909:9313
  TR:138:434

Rausch, David L.
See Herman G. Heinemann, HY9:Sept 71:1555:8345

Rausche, Frank
Performance of Pile Driving Hammers, with George G. Goble, CO2:Sept 72:201:9188
  TR:138:475
Soil Resistance Predictions from Pile Dynamics, with Fred Moses and George G. Goble, SM9:Sept 72:917:9220
  Dsc: Farrokh N. Screwvala, SM5:May 73:412:9692
  Clo: SM12:Dec 73:1169:10184
  TR:138:481
See George G. Goble, PES:73:III-227
See George G. Goble, PES:73:III-3

Ravindra, Mayasandra K.
Illustrations of Reliability-Based Design, with Niels C. Lind and Wilfred W.C. Siu, Preprint No.2023, Apr 73
Theory of Structural Code Optimization, with Niels C. Lind, ST7:July 73:1541:9864
See Theodore V. Galambos, Preprint No.1940, Apr 73

Rawles, Richard H., Jr.
A First- Dallas Bridge has Post-Tensioned Concrete Deck, CE:Apr 73:74
  Dsc: Joel Rosenblatt, CE:July 73:22

Rawls, Walter J.
Methods for Predicting Urban Drainage Costs, with John W. Knapp, HY9:Sept 72:1575:9206
  TR:138:486
Subsurface Flow in Georgia Coastal Plain, with Loris E. Asmussen, IR3:Sept 73:375:10013

Raymond, Gerald P.
Session I - Embankments On Soft Ground, PES:73:III-61
Dsc, SM5:May 72:513:8860, of "Consolidation of Clay Layer in Two Dimensions", SM1:Jan 72:79:8674

Raymond, William L., Jr.
Offsets to Sight Obstructions Near the Ends of Horizontal Curves, CE:Jan 72:71
  TR:138:58

Read, Anthony L.
Dsc, with Milton F. Pietsch, IR3:Sept 73:403:9962, of "Uniform Irrigation with Low-Pressure Trickle Systems", IR3:Sept 72:341:9175

Reber, J. Blair, Jr.
Ultimate Strength Design of Tubular Joints, ST6:June 73:1223:9793
  Errata: ST11:Nov 73:2335:10113

Rechard, Paul A.
See Thomas A. Wesche, HYB:Aug 73:21

Reddy, K. Rami
See Vincent X. Kunukkasseril, EM4:Aug 72:777:9092

Reddy, Y. R.
Experiments with Unconventional Storm Overflows, with John Pickford, EE3:June 73:177:9794
Stilling Pond Storm Overflow Studies, with John Pickford, SA4:Aug 72:609:9093
  Errata: EE3:June 73:387:9758
  TR:138:428

Redel, Carl
Dsc, SM4:Apr 73:355:9639, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM6:June 72:557:8944
Dsc, SM4:Apr 73:355:9639, of ""Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM7:July 72:749:9070

Redlinger, Jacob F., Jr.
Dsc, CE:Apr 73:86

Redmond, W. R.
Public Attitudes Towards Transportation, PP1:Jan 73:77:9487

Redwood, Richard G.
Dsc, ST9:Sept 72:2129:9159, of "Tests on Beams with Reinforced Web Openings", ST3:Mar 72:611:8791
See Albert W.G. Hanna, PO1:May 73:105:9701

Reed, John W.
Human Response to Tall Building Wind-Induced Motion, State-of-Art Report 6, with Robert J. Hansen and Erik H. Vanmarcke,, TB:73:II-17-687
See Robert J. Hansen, ST7:July 73:1589:9868

Reed, Joseph R.
See Richard A. Hartman, HY9:Sept 72:1729:9156

Reese, Lymon C.
Axial Capacity, PES:73:III-201
See Michael W. O'Neill, SM2:Feb 72:195:8741

Reese, Raymond C.
Gravity Loads and Temperature Effects, Theme Report, TB:73:Ib-5-5
Structural Failures from the Human Side, STF:73:103
Structural Failures from the Human Side, CE:Jan 73:81
Dsc: Richard C. Elstner, CE:Apr 73:81
See Georg Wastlund, TB:73:III-1

Reginatto, Aldo R.
Dsc, PES:73:III-107, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589

Rehberger, Glenn W.
Dsc, CE:Sept 73:29, on Muskegon Sprays Sewage Effluents on Land, CE:May 73:49

Reid, George W.
Can Engineering Forecasters Effect Water Law?, with E. Edd Pritchett and Susan Pritchett, SA4:Aug 71:479:8329
Dsc: Melvin W. Jackson, SA1:Feb 72:271:8682
TR:138:22

Reilly, Robert J.
Stiffness Analysis of Grids Including Warping, ST7:July 72:1511:9022
Dsc: A. Fricker and F. Sawko, ST7:July 73:1654:9826; Negussie Tebedge, ST7:July 73:1657:9826; Fernando Venancio-Filho and Fernando Iguti, ST7:July 73:1660:9826
TR:138:333

Rein, David A.
See Edwin R. Bennett, EE1:Feb 73:55:9537

Reinitzhuber, Friedrich K.
Structural Systems, Summary Report -- Part II, TB:73:Ia-3-651

Reinschmidt, Kenneth F.
Computers: Key to Integrated Building Design, CE:Mar 72:74
Dsc: Donald H. Komito, CE:July 72:52
TR:138:158
Computer Systems for Building Planning and Design, Theme Report, State-of-Art Report 1, TB:73:C-AC31-159
Systems Methodology in High-Rise Planning and Design, State-of-Art Report 5B, TB:73:Ia-1-147

Reiss, Max
See Uri Kirsch, ST1:Jan 72:249:8645

Rejcha, Charles E.
Elastomeric Bridge Bearings, CE:May 72:46
Dsc: Knut S. Platou, CE:Jan 73:73
TR:138:233

Reley, Patrick
See Arunachalan Sargunam, TN: HY3:Mar 73:555:9609

Remillieux, Maurice
Development of Bottom Panels in River Training, WW2:May 72:151:8881
TR:138:300

Renard, Kenneth G.
Dsc, with J. Roger Simanton, HY9:Sept 73:1647:9961, of "Predicting Sediment Yield in Western United States", HY12:Dec 72:2073:9432
See Herbert B. Osborn, IR3:Sept 73:207:10005

Renton, John D.
Dsc, ST10:Oct 72:2318:9227, of "Analysis of Space Truss as Equivalent Plate", ST12:Dec 71:2777:8569

Rentschler, Glenn P.
Tall Building Current Research Surveys, with Wai F. Chen, TB:73:C-AC11-55

Resch, Francois J.
See Hans J. Leutheusser, HYB:Aug 73:315

Resendiz, Daniel
Analysis of Embankment Deformations, with Miguel P. Romo, PES:72:I-817
Dsc: C. F. Lee, PES:73:III-157
Clo: PES:73:III-159

Reti, G. Andrew
Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division, SM3:Mar 73:249:9614
Dsc: John D. Rouse, Anatole Longinow and Richard L. Chiapetta, SM12:Dec 73:1174:10184

Reuter, Fritz
Cleaning and Waste Disposal, State-of-Art Report 6, TB:73:Ia-2-363

Revell, Russell W.
Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division, HY2:Feb 73:337:9571
Dsc: Gordon W. Dukleth, HY11:Nov 73:10109; Robert T. Jaske, HY11:Nov 73:10109; Wilfred G. Lockett, HY11:Nov 73:10109; Leib Wolofsky, HY11:Nov 73:10109; Geoffrey N. Alexander, HY12:Dec 73:2388:10182

Reynolds, Alan J.
See Rangaswami Narayanan, HY5:May 72:913:8919

Reynolds, William N.
See Cyrus M. Vaziri, IR1:Mar 73:1:9622

Reznik, S.
Quality Control of Prefabricated Components for Tall Buildings, State-of-Art Report 8, TB:73:Ib-9-889

Rhenals, Alonso
See John C. Schaake, Jr., IR3:Sept 73:409:9962

Rhodes, James
Alternative Approach to Light-Gage Beam Design, with James M. Harvey, ST8:Aug 71:2119:8327
Dsc: Hans Larsson, ST5:May 72:1200:8861; Kothapalli Ramaiah Venkataramaiah, ST6:June 72:1332:8930
Errata: ST11:Nov 72:2629:9307
Clo: ST12:Dec 72:2812:9395
TR:138:9

Rhone, Thomas J.
General Considerations of Flow in Branching Conduits, HYB:Aug 73:205
See Gustavus W. Center, Preprint No.1899, Jan 73
See James V. Williamson, HY5:May 73:747:9729

Rice, John L.
Keyed Joint Performance Under Heavy Loaded Aircraft, TE4:Nov 72:931:9376
Dsc: Robert G. Packard, TE4:Nov 73:959:10110
TR:138:561

Rice, Paul F.
Practical Approach to Two-Way Slab Design, ST1: Jan 73:131:9485
Dsc: Nirmalendu Maitra, ST11:Nov 73:2324: 10113

Rich, Richard C.
Parking Design and Requirements for High Rise Building, State-of-Art Report 11, TB:73:Ia-1-225

Richards, Curtis W.
Freeway Development Effects Upon Adjacent Transit Usage, with Edward A. Beimborn, TE3:Aug 73:435: 9923

Richards, John L.
See Omar E. Rood, CO2:Sept 72:331:9217

Richards, Paul B.
Dsc, CE:Aug 73:20, on Systems Approach to Building, CE:Apr 73:59

Richards, Rowland, Jr.
See John F. Abel, SM7:July 73:509:9858
See Angel L. Lazaro, III, ST8:Aug 73:1761:9934

Richards, Sterling J.
Tensiometer Use in Shallow Ground-Water Studies, with Lyman S. Willardson, Sterling Davis and James R. Spencer, IR4:Dec 73:457:10243

Richardson, Gary V.
See Paul R. Nixon, IR2:June 72:185:8945

Richardson, Peter
Service Systems, Summary Report, TB:73:Ia-2-389

Richart, Frank E., Jr.
See Victor L. Streeter, Preprint No.1952, Apr 73

Riebe, John M.
STOL Aircraft Flight and Landing Area Considerations, TE2:May 73:339:9743

Riggs, Henry C.
Dsc, HY11:Nov 73:2133:10109, of "Floods Predicted From Rainfall Frequencies", HY10:Oct 72:1773: 9294

Rigter, Ben P.
Minimum Length of Salt Intrusion in Estuaries, HY9: Sept 73:1475:10010

Ring, Stanley L.
See Kenneth A. Brewer, Preprint No.2041, July 73

Ringo, Boyd C.
Dsc, with James F. McDonough, ST5:May 73:955: 9693, of "Interaction Equations for Biaxially Loaded Sections", ST5:May 72:1035:8902

Rinne, John E.
ASCE at Midterm or Challenges of 1972, CE:July 73:87
TR:138:607
ASCE President's Inaugural Address, CE:Jan 73:74
President's Annual Address, CE:July 73:87
See Edward A. Abdun-Nur, Preprint No.1912, Jan 73

Ripken, John F.
Cavitation in High-Head Conduit Control Dissipators, with Norio Hayakawa, HY1:Jan 72: 239:8678
TR:138:151
See Norio Hayakawa, HY9:Sept 72:1728:9156

Rish, Raphael F.
Dsc, PO1:May 73:259:9690, of "Analysis and Design of Hyperbolic Cooling Towers", PO1:June 72:133: 8997

Rivera, Al
Dsc, CE:Oct 73:31, on A Report from the Executive Director on Membership Dues, CE:Dec 72:29

Robbins, E. Guy
Traffic Data for Concrete Pavement Design, with Cloyd E. Warnes, TE1:Feb 73:17:9555

Robbins, Michael L.
See Ralph W. Kiefer, SU1:Sept 73:39:10015

Robbins, Richard J.
Vehicular Tunnels in Rock - Direction for Development, CO2:Sept 72:235:9173
Dsc: David A. Howells, CO1:July 73:216:9822; S. Patrick Collins, CO1:July 73:217:9822
TR:138:379

Roberson, John A.
Analysis of Flow in Channels with Gravel Beds, with Steven J. Wright, HYB:Aug 73:63
Turbulence Effects On Drag of Sharp-Edged Bodies, with Chi Yu Lin, G. Scott Rutherford and Marvin D. Stine, HY7:July 72:1187:9061
Dsc: Farid Mansour and Walter H. Graf, HY9: Sept 73:1627:9961
TR:138:386

Roberts, Edwin B.
See Robert M. Hagan, IR1:Mar 72:25:8780

Roberts, George D.
Dsc, SM1:Jan 73:144:9461, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM5:May 72:481:8917

Roberts, James D.
Foundation Problems for Large Earthquakes, with William F. Jones, Preprint No.1943, Apr 73

Roberts, John Brian
Coherence of Grid-Generated Turbulence, with David Surry, EM6:Dec 73:1227:10248
Drag Spectra of Simple Structures in Turbulence, EM5:Oct 72:1053:9238
TR:138:448

Roberts, Keith
The Public Role of Engineering: the California State Water Project, PP1:Jan 73:19:9492
Dsc: Harry Wiersema, PP4:Oct 73:541:10040

Roberts, Keith J.
Dsc, SA2:Apr 72:456:8800, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280

Roberts, Richard
Fatigue and Fracture of Bridge Steels, with George Irwin, Preprint No.1990, Apr 73

Roberts, Thomas L.
See Robert J. Luedtke, HYB:Aug 73:259

Robertson, F. P.
Bituminous Blanket for Dike, with Johannes Lehnert, CE:Dec 72:54
TR:138:537

Robertson, James M.
See Hormoz Pazwash, HY9:Sept 71:1317:8374

Robertson, Leslie E.
Structural Systems, Theme Report, TB:73:Ia-3-403
See Peter W. Chen, ST8:Aug 72:1681:9142

Robinsky, Eli I.
Design of Insulated Foundations, with Keith E. Bespflug, SM9:Sept 73:649:10009

Robinson, Arthur R.
See German R. Gurfinkel, ST6:June 73:1241:9800

Robinson, David N.
See Richard H. Lance, EM1:Feb 72:195:8736

Robinson, Franklin
See William Hustrulid, RM14:73:61

Robinson, Lee
Floods Predicted From Rainfall Frequencies, with Theodore T. Williams, HY10:Oct 72:1773:9294
Dsc: Henry C. Riggs, HY11:Nov 73:2133:10109
TR:138:517

Robinson, Millard P., Jr.
Pipelining of Low-Concentration Sand-Water Mixtures, with Walter H. Graf, HY7:July 72:1221:9060
TR:138:381

Robles, Francisco
Strength Factors: Material and Geometrical Aspects, State-of-Art Report 4, TB:73:III-26-907

Robnett, Quentin L.
Subgrade Strengthening of Existing Airfield Runways, TE2:May 73:267:9724

Rockey, Kenneth C.
Failure of Thin-Walled Members Under Patch Loading, with Mohamed A. El-Gaaly and Debal K. Bagchi, ST12:Dec 72:2739:9409
Errata: ST10:Oct 73:2212:10039
TR:138:572

Rodenhuis, G. S.
Difference Method for Higher-Order Equations of Flow, HY3:Mar 73:471:9628

Roe, Terry
Programming Approach to Urban Transit Planning, with Mathew Shane, TE3:Aug 73:571:9960

Roegiers, J. C.
The Deep Stress Probe -- A Tool for Stress Determination -- Abstract, RM14:73:755

Roesset, Jose M.
Modal Analysis for Structures with Foundation Interaction, with Robert V. Whitman and Ricardo Dobry, ST3:Mar 73:399:9603
Some Structural Problems-Standard Oil Building of Indiana, with Thomas G. Harmon, R. Elangwe Efimba and Robert J. Hansen, ST4:Apr 73:637:9644

Rogers, Billy R.
Highway Access for Dallas-Fort Worth Airport, ASC73:Mar 73:95

Rogers, Cranston
Which First Higher Fees or Higher Salaries, CE:Aug 73:76

Rogers, Paul
Dry-Type Hyberbolic Cooling Tower, with Laszlo Heller, CE:Oct 72:56
TR:138:452
Wet-Type Hyperbolic Cooling Towers, CE:May 72:70
TR:138:262

Rohatyn, Frederick S.
Automatic Voltage Drop Compensation for Tall Buildings, TB:73:Ia-2-382

Rohrer, E. Parke
See William D. Alexander, CE:Oct 72:77

Rohter, Laurence E.
Bridge To Europe, CE:Mar 73:61

Rolfe, Stanley T.
Designing to Prevent Fracture in Tall Buildings, State-of-Art Report 6, with G. R. Egan, TB:73:II-18-781
Fracture Mechanics, With High-Strength Steels A Must, CE:Aug 72:37
Dsc: Carl H. Zweben, CE:Nov 72:49
TR:138:357

Roll, Frederic
See Ish K. Aneja, ST12:Dec 71:2861:8603

Romanelli, Enrique
Torsion of Bars of Regular Polygonal Cross Section, with Mario J. Maurizi and Patricio A. Laura, EM2:Apr 72:415:8809
TR:138:191

Romani, Fredy
Influence of Progressive Failure On Slope Stabilities, with C. William Lovell, Jr. and Milton E. Harr, SM11:Nov 72:1209:9349
TR:138:530

Romo, Miguel P.
See Daniel Resendiz, PES:72:I-817

Romstad, Karl M.
See Thomas C. Ferrara, UP2:Dec 71:179:8585

Ronter, Alan R.S.
See John B. Martin, EM1:Feb 72:107:8745

Rood, Omar E.
Construction Planning in South East Asia, with John L. Richards, CO2:Sept 72:331:9217
TR:138:585

Roorda, John
Buckling of Shells: An Old Idea with a New Twist, EM3:June 72:531:8951
Dsc: James A. Cheney, EM2:Apr 73:413:9636
Clo: EM5:Oct 73:1094:10041
TR:138:266
See Jorn S. Hansen, EM2:Apr 73:271:9647

Roos, Amos
Dsc, CE:July 73:26, on Are More Women Needed in Civil Engineering, CE:May 73:54

Roos, Daniel
Evaluation of Computer Charging Policies, ST7:July 73:1423:9849

Roper, Willard
Wastewater Management Studies by the Corps of Engineers, Preprint No.1917, Jan 73
Wastewater Management Studies by the Corps of Engineers, EE5:Oct 73:653:10044

Ropertz, Henry
See V. Setty Pendakur, UP1:Mar 73:121:9584

Roret, Jean A.
High Rise Construction in France, State-of-Art Report 4B, TB:73:Ia-4-741
See W. H. Arch, TB:73:Ia-4-823

Rosenberg, J. T.
See D. A. Shockey, RM14:73:709

Rosenberg, Norman J.
Frequency of Potential Evapotranspiration Rates in Great Central Plains, IR2:June 72:203:8946
TR:138:294

Rosenblatt, Joel
Dsc, CE:July 73:22, on A First- Dallas Bridge has Post-Tensioned Concrete Deck, CE:Apr 73:74

Rosenblueth, Emilio
Code Specification of Safety and Serviceability, State-of-Art Report 2, TB:73:Ib-10-931
Ethical Optimization in Engineering, PP2:Apr 73:223:9669
Errata: PP4:Oct 73:544:10040
Floor Loads, TB:73:Ib-5-121

Reliability Optimization in Isostatic Structures, with Enrique Mendoza, EM6:Dec 71:1625:8584
  Errata: EM4:Aug 72:1001:9125
  TR:138:38
Dsc, CE:Jan 73:57, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE: Aug 72:55
Dsc, ST3:Mar 73:590:9583, of "Dynamic Soil-Structure Interaction", ST7:July 72:1525:9026

Rosenbraugh, Vernon H.
See Stuart E. Swartz, EM3:June 72:711:8992

Rosman, Riko
The Continuum Analysis of Shear-Wall Structures, TB:73:III-21-271
Dsc, ST12:Dec 73:2501:10185, of "Approximate Analysis of Tall Wall-Frame Structures", ST2:Feb 73:199:9550
Dsc, ST12:Dec 73:2505:10185, of "General Analysis of Nonplanar Coupled Shear Walls", ST3:Mar 73:365:9604

Ross, Harold
See William D. Won, EE3:June 73:205:9781

Ross, Hayes E., Jr.
Vehicle-Roadway Interaction Studies by Math Model, with Don L. Ivey, TE2:May 72:285:8914
  TR:138:249

Ross, Robert J.
See Harvey H. Haynes, ST6:June 72:1291:8963

Rotaru, Grigore
See Iosif Gruner, TB:73:III-25-827

Rothbart, Harold
See John R. Baldwin, CO2:Nov 71:177:8501

Rothfus, Robert R.
See Kamlesh K. Jain, EE4:Aug 73:411:9945

Roupe, Pamela A.
New Staff Members For Technical Activities, CE: Aug 73:69

Rouse, Hunter
Fluid Mechanics Teaching and Research: A View from a Dean's Office, HY5:May 72:775:8899
  TR:138:287
Hydraulicians are Human Too, HY5:May 72:875:8877
  TR:138:257
Six Join Ranks Of ASCE Honorary Members, CE: Oct 73:89

Rouse, John D.
Dsc, with Anatole Longinow and Richard L. Chiapetta, SM12:Dec 73:1174:10184, of "Engineering Computer Program Documentation Standards, by the Subcommittee on Program Documentation of the Committee on Computer Applications of the Soil Mechanics and Foundations Division", SM3:Mar 73:249:9614

Rousseau, P. E.
Evolution of Conception on Curtain Walls in Relation with Flexibility of Structures, TB:73:Ia-12-1153

Rovers, Frank A.
Infiltration and Landfill Behavior, with Grahame J. Farquhar, EE5:Oct 73:671:10047

Rowe, Peter W.
Stress-Strain Relationships for Particulate Materials at Equilibrium, PES:73:III-327

Rowe, R. Robinson
Dsc, SU1:Sept 73:136:9965, of "Barometric Leveling Analysis", SU1:July 72:93:9053

Roy, John R.
See John H. Argyris, ST2:Feb 72:465:8732
See John H. Argyris, EM6:Dec 72:1599:9390

Rozovsky, I. L.
Investigation of the Forms of Interface by the Density Current of Salt and Fresh Water in a Rectangular Channel, with A. N. Shabrin and S. B. Markov, ISSF:Aug 72:649

Rozvany, George I.N.
Nonconvex Structural Optimization Problems, TN: EM1:Feb 73:243:9528
Optimal Plastic Design for Bending and Shear, TN: EM10:Oct 73:1107:10041
Rectangular Grillages of Least Weight, with Sai R. Adidam, EM6:Dec 72:1337:9404
  Dsc: Robert E. Melchers and Peter G. Lowe, EM6:Dec 73:1301:10181
  TR:138:538

Rubanenko, B.
Design and Construction of Tall Buildings, State-of-Art Report 12, TB:73:Ia-1-231

Rubin, H.
Composed Tall-Buildings-Structure Loaded by Horizontal Forces (By Reduced-Cantilever-Systems), TB:73:II-17-709

Rubin, Hillel
Drag Reduction Application in Fire Fighting Systems, SA1:Feb 72:1:8697
  TR:138:149

Rubinstein, Moshe F.
Stability of Framed Struct , with Richard M. Pickett, Jr., TN: EM2:Apr 73:429:9641
See Uri Kirsch, EM1:Feb 72:61:8706
See Antone F. Sayegh, EM6:Dec 72:1547:9435

Ruchelman, Leonard
See Charles Brownstein, TB:72:C-AC19-151

Ruff, James F.
Clarks Fork Yellowstone River Remote Sensing Study, with John W. Keys, III and Morris M. Skinner, HYB:Aug 73:305
Turbulent Shear Flow in Porous Boundary, with Lynn W. Gelhar, EM4:Aug 72:975:9144
  Errata: EM3:June 73:602:9759
  TR:138:404
See Fred H. Wend, Preprint No.2094, Oct 73

Ruiz, A. L.
Dsc, with John P. Gnaedinger, SM10:Oct 73:889:10038, of "Strength Properties of Chemically Solidified Soils", SM11:Nov 72:1163:9332

Rumer, Ralph R., Jr.
Interfacial Wave Breaking in Stratified Liquids, HY3: Mar 73:509:9633
  Errata: HY12:Dec 73:2390:10182
See Jong-Chiang Shiau, HY12:Dec 73:2251:10222

Runyan, Edwin Joe
KCI Airport Planned for Jet Age, CE:Nov 72:41
  TR:138:480

Russel, J. E.
Residual Stresses in Rock, with E. R. Hoskins, RM14:73:1

Russell, Alan D.
Economic Modelling, Preprint No.2066, Oct 73

Russell, Samuel O.
See C. Anthony Tsou, HY5:May 73:833:9732

Rutenberg, Avigdor
Dsc, ST3:Mar 73:586:9583, of "Perimetral Tube for 37-Story Steel Building", ST6:June 72:1255:8937

Dsc, ST9:Sept 73:1959:9964, of "Structure-Foundation Interaction Analyses", ST11:Nov 72: 2413:9352

Ruth, Byron E.
See Roger K. Seals, SM4:Apr 72:311:8817

Rutherford, G. Scott
Goal Formulation for Socio-technical Systems, with Joseph L. Schofer and Martin Wachs, UP2:Sept 73: 157:9985
See John A. Roberson, HY7:July 72:1187:9061

Rutt, Frank E.
Dsc, Bidding Procedure, CE:Nov 73:20

Rutter, E. H.
The Effects of Temperature, Confining Pressure, Strain-Rate and Interstitial Water on the Rheological Behavior of Calcite Rocks -- Abstract, RM14:73:753

Ruus, Eugen
Flow Through Trifurcations and Manifolds, HYB:Aug 73:227

Ryan, Bruce A.
See Robert E. Ball, ST10:Oct 73:2097:10072

Ryan, Patrick J.
Transient Cooling Pond Behavior, with Donald R.F. Harleman, HYB:Aug 73:191
See Wayne C. Huber, HY4:Apr 72:645:8839

Rydzewski, Janusz R.
An Approach to Analysis of Arch Dams in Wide Valleys, with Richard W. Humphries, PO1:May 73: 165:9710

Ryker, Norman L.
See James L. Sherard, PES:72:I-589
See James L. Sherard, PES:72:I-653

Saada, Adel S.
Strain-Stress Relations and Failure of Anisotropic Clays, with Chin-Der Ou, SM12:Dec 73:1091: 10225

Sadeh, Willy Z.
Turbulence Effect on Wall Pressure Fluctuations, with Jack E. Cermak, EM6:Dec 72:1365:9445
Dsc: Peter Freymuth, EM6:Dec 73:1305:10181
Errata: EM5:Oct 73:1100:10041
TR:138:579

Sadigh, Khosrow
See Bernard B. Gordon, Preprint No.2025, Apr 73

Saffir, Herbert S.
Dsc, ST7:July 73:1676:9826, of "Failures of Structures Due to Extreme Winds", ST11:Nov 72: 2455:9324

Safwat, Hemmat H.
Friction -- Frequency Dependence for Oscillatory Flows in Circular Pipes, with Jaap v.d. Polder, HY11:Nov 73:1933:10158

Sagaseta, C.
See L. Canizo, SM8:Aug 72:831:9078

Sahasrabudhe, S. J.
See K. G. Ranga Raju, HY12:Dec 72:2224:9391

Sahlin, Sven
High Quality Structural Masonry Based on Controlled Parameters, TB:73:III-27-1086
Methods of Step-by-Step Nonlinear Analysis, State-of-Art Report 2, TB:73:III-22-373
Dsc, ST3:Mar 72:775:8752, of "Stability and Load Capacity of Members with No Tensile Strength", ST7:July 71:1913:8253
See Anthony E. Fiorato, TB:73:Ib-9-893

Saini, Sarjit S.
Behavior of Koyna Dam - Dec. 11, 1967 Earthquake, with Jai Krishna and Anjur R. Chandrasekaran, ST7:July 72:1395:9015
TR:138:319

Sakkas, John G.
Dam-Break Flood in a Prismatic Dry Channel, with Theodor S. Strelkoff, HY12:Dec 73:2195:10233

Sako, Lloyd
Proximal Decisions in Traffic Intersections, with Samuel Zundelevich, TE3:Aug 73:597:9915

Sakthivadivel, Ramaswamy
See D. Chandrasekharan, HY12:Dec 72:2229:9391

Sale, James P.
Membrane Encapsulated Soil Layers, with Frazier Parker and Walter R. Barker, SM12:Dec 73:1077: 10240

Salem, Abdelsalm M.
Consolidation Characteristics of Dredging Slurries, with Raymond J. Krizek, WW4:Nov 73:439:10157

Salem, Abel Helmy
Stability of Unbraced Single-Bay Multistory Frames, ST2:Feb 73:223:9552
Errata: ST12:Dec 73:2502:10185

Salem, Mohammad H.
See William C. Schnobrich, ST10:Oct 72:2327:9227

Sales, Francis H.
See Erik G. Thompson, SM9:Sept 72:899:9202

Salmon, Martin A.
Wave Diffraction by Rigid Foundations, TN: EM4: Aug 73:902:9898
See Stephen Thau, EM1:Feb 73:225:9522

Saltzman, Arthur
Patterns of Mobility of the Working Poor, with Alice E. Kidder, Preprint No.2046, July 73
Transportation Research for Community Objectives, with Sidney H. Evans, Alice E. Kidder and Florentine Sowell, TE4:Nov 72:855:9369
TR:138:555

Sampson, Richard A.
See Robert Park, ST7:July 72:1341:9011

Sanan, Bal K.
Viscoelastic Shrinkage Stress in Soil-Cement Base, with Kalankamary P. George, SM12:Dec 72:1375: 9454
Dsc: Mitsunori Kawamura, SM:July 73:578:9825
TR:138:598

Sanchez Bribiesca, Jose Luis
Dsc, with Rodolfo Del Castillo Muris, HY11:Nov 73: 2151:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Sanders, Paul M.
Evaluation of the Risk of Vehicle Impact on Structures, STF:73:87

Sandhu, Raghbir S.
See Frank J. Tokarz, ST5:May 72:1161:8922
See W. Karwoski, RM14:73:752

Sandi, Horea
Failure Model Calculations, TB:73:Ib-10-1038
Limit State for Dynamic Loads, TB:73:III-26-938
Loads and Load Combinations, State-of-Art Report 4, TB:73:Ib-10-973
Non-Synchronous Ground Motion, TB:73:Ib-6-325

Sandler, Ivan
See Melvin L. Baron, Preprint No.1937, Apr 73
See Melvin L. Baron, EM6:Dec 73:1181:10210

Sandoval, A.
Tower No. 22 -- San Borja Residential Renewal Project, with A. Vives, TB:73:C-P-472

Sandover, John A.
Theories of Closure of Rockfill Dams, CO2:Nov 71:313:8542
Dsc: Bishnu Prasad Das, CO1:July 73:210:9822

Sandstrom, Gosta E.
Stockholm Puts Sewage Plant Underground, with Edlund Strom, CE:Sept 73:78
Errata: CE:Nov 73:20

Sangrey, Dwight A.
See R. J. Mitchell, PES:72:1-1051

Sangster, William M.
Sangster Is President-Elect; Other Officers For '74 Elected, CE:Sept 73:110
Two Men Nominated For President-Elect William M. Sangster, Official Nominee, CE:July 73:90
Views of Candidates for President-Elect: Sangster, CE:July 73:91
1974 ASCE Officers Installed In New York, CE:Oct 73:88

Sani, Sarjit S.
See Anjur R. Chandrasekaran, HY5:May 72:887:8923

Sankaran, Kolinjuvadi S.
Dsc, with Ravikumar Bhaskaran, SM8:Aug 73:635:9892, of "Analysis of Waco Dam Slide", SM9:Sept 72:869:9210

Santathadaporn, Sakda
Analysis of Biaxially Loaded Steel H-Columns, with Wai F. Chen, ST3:Mar 73:491:9621
Tangent Stiffness Method for Biaxial Bending, with Wai F. Chen, ST1:Jan 72:153:8637
Dsc: Clifford O. Hays, Jr., ST9:Sept 72:2125:9159
Clo: ST3:Mar 73:578:9583
TR:138:93

Santos-Moreno, Antonio
Summary Representation Applied to Seepage Problems, with Raymond J. Krizek and Gabor M. Karadi, EM1:Feb 72:141:8738
TR:138:144

Saragoni, G. Rudolfo
A New Kind of Ground Motion, TB:73:Ib-6-323
See E. Calcagni, TB:73:C-P-462

Sardi, Victor
Dsc, with Celetino Martinez de la Plaza, HY7:July 73:1182:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY9:Sept 72:1647:9177

Sargent, Howard L.
Fishbowl Planning Immerses Pacific Northwest Citizens in Corps Projects, CE:Sept 72:54
Dsc: D. Kelly O'Day, CE:Jan 73:59
TR:138:389

Sargious, Michel A.
See Sue K. Wang, TE1:Feb 72:37:8699
See Sue K. Wang, TE2:May 73:255:9721

Sargunam, Arunachalan
Physico-Chemical Factors in Erosion of Cohesive Soils, with Patrick Reley, Kandiah Arulanandan and Ray B. Krone, TN: HY3:Mar 73:555:9609

Sarja, Asko
Dsc, ST11:Nov 72:2632:9307, of "Slender Concrete Columns Under Sustained Load", ST11:Nov 71:2729:8544

Sarkar, Kalyan K.
Dsc, ST7:July 73:1667:9826, of "Basic Design Criteria of the Recommended Lateral Force Requirements and Commentary, By the Ad Hoc Committee on Direction Study of the Joint SEAOC-ASCE Committee on Seismic Forces of the Committee on Dynamic Forces of the Structural Division", ST9:Sept 72:1913:9182

Sarkar, S. N.
Dsc, HY10:Oct 72:1872:9222, of "Bed Load Transportation in Alluvial Channels", HY5:May 71:653:8091
Dsc, HY9:Sept 73:1645:9961, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295

Sarkisian, A. S.
See V. I. Klimok, ISSF:Aug 72:261

Sarma, B. S.P.
See Ramachandra A. Rao, HY7:July 72:1205:9024

Sarrazin, Mauricio A.
Dynamic Soil-Structure Interaction, ST7:July 72:1525:9026
Dsc: Emilio Rosenblueth, ST3:Mar 73:590:9583
Clo: ST9:Sept 73:1955:9964
TR:138:338

Sastry, G.
Prediction of Irrigation Advance Function by Dimensional Analysis, with S. C. Agarwal, IR2:June 72:247:8939
Dsc: Pratap Singh and H. S. Chauhan, IR2:June 73:186:9761
TR:138:223

Satija, Kanwar S.
Dsc, HY8:Aug 72:1456:9076, of "Mechanics of Sheet Flow Under Simulated Rainfall", HY9:Sept 71:1367:8373

Sato, James F.
Dsc, CE:Sept 72:57, on Brittle Fracture of Steel Pipe Analyzed, CE:July 72:70

Sauer, Vernon B.
Unit-Response Method of Open-Channel Flow Routing, HY1:Jan 73:179:9499

Sauer, Victor
California County Considers Esthetics, CE:Nov 73:70

Sawko, F.
See A. Fricker, ST7:July 73:1654:9826

Sawyer, Herbert A.
Economic Basis for Seismic Resistance, TB:73:Ib-6-319
Non-Linear Analysis and Limit Design, Summary Report, TB:73:III-22-483

Sax, Robert I.
Weather Modification: Report Card, CE:Jan 73:53

Saxena, Dhirendra S.
Vibrations of Machine Foundations and Soil Dynamics Considerations, Preprint No.1991, Apr 73

Saxena, Surendra K.
Geotechnical Properties of Hudson River Silts, with Timothy P. Smirnoff, TN: SM10:Oct 73:912:10042

Sayegh, Antone F.
Elastic-Plastic Analysis by Quadratic Programming, with Moshe F. Rubinstein, EM6:Dec 72:1547:9435
Dsc: Oscar G. De Pineres, EM6:Dec 73:1304:10181
TR:138:564

Sayre, William W.
See V.S. Shastri Annambhotla, WW4:Nov 72:489:9358

Scalmanini, Joseph C.
See Verne H. Scott, HYB:Aug 73:409

Scalzi, John B.
Mechanical Properties of Structural Cables, with William K. McGrath, ST12:Dec 71:2837:8604
  Dsc: Blair Birdsall, ST8:Aug 72:1883:9079
  Clo: ST4:Apr 73:790:9640
  TR:138:52
Plate Wall Cladding, State-of-Art Report 3B, with Arthur P. Arndt, TB:73:II-17-653

Scarpa, Amerigo
See Marvin Gates, CO1:Mar 72:79:8778

Schaake, John C., Jr.
Evaluation and Control of Urban Runoff, with Guy Leclerc and Brandan M. Harley, Preprint No.2103, Oct 73
Dsc, with Guillermo Vicens, Eric Wood, Roberto Lenton and Alonso Rhenals, IR3:Sept 73:409:9962, of "Drought Severity and Water Supply Dependability", IR3:Sept 72:433:9219
See George R. Grantham, SA5:Oct 71:569:8429
See Richard de Neufville, SA6:Dec 71:825:8575

Schad, Ted
See Charles Luce, CE:May 73:70

Scharpf, Dieter W.
See John H. Argyris, ST3:Mar 72:633:8788

Scheffey, Charles F.
An Analysis of the Pt. Pleasant Bridge Investigation, STF:73:77
See Raymond Eugene Davis, ST1:Jan 72:165:8631

Scheibner, B. J.
See E. H. Skinner, RM14:73:754

Scherz, James P.
See Ralph W. Kiefer, SU2:Nov 71:321:8545

Schiff, Anshel J.
Earthquake Effects on Electric Power Systems, PO2: Nov 73:317:10134

Schiffman, Robert L.
Computer Use in Civil Engineering, with E. Rex Krueger, PP2:Apr 72:251:8834
  TR:138:299
See Robert H. Ewald, Preprint No.2082, Oct 73

Schild, Neil W.
Irrigation Management - A Tool for Agribusiness, with Harvey R. Nelson, Jr., IR3:Sept 72:347:9211
  TR:138:486

Schlaich, Jorg
See Fritz Leonhardt, CE:July 72:41

Schleusener, Richard A.
Weather Modification Program for South Dakota, with Edwin I. Boyd, HY9:Sept 72:1515:9187
  Errata: HY7:July 73:1187:9823
  TR:138:466

Schlickenrieder, Warren
See Russell C. Mt. Pleasant, SA5:Oct 71:709:8469

Schmertmann, John H.
Dsc, SM4:Apr 72:430:8801, of "Simplified Procedure for Evaluating Soil Liquefaction Potential", SM9: Sept 71:1249:8371
Dsc, SM6:June 73:477:9762, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM6:June 72:557:8944

Schmidgall, Tasso
Spillway Gate Vibration on Arkansas River Dams, HY1:Jan 72:219:8676
  Dsc: G. Padmanabhan, HY12:Dec 72:2243:9391
  Clo: HY6:June 73:988:9760
  TR:138:146

Schmidt, Birger
Dsc, SM8:Aug 73:640:9892, of "Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle", SM1:Jan 73:111:9511

Schmidt, J. W.
See Wilbur E. Wilhelm, Jr., TE4:Nov 73:923:10165

Schmidt, James D.
Consolidation of Porous Media with Non-Darcy Flow, with Russell A. Westmann, Preprint No.1986, Apr 73

Schmidt, John O.
Master Sewerage System for Metropolitan Manila, SA1:Feb 72:125:8712
  Dsc: Kazuyoshi Kawata, SA6:Dec 72:1047:9393
  Errata: SA4:Aug 72:682:9077
  Clo: EE3:June 73:377:9758
  TR:138:187

Schmidt, Lewis C.
See William R. Flower, ST12:Dec 71:2777:8569
See Geoffrey D. Base, ST10:Oct 73:2123:10055

Schmidt, Norbert O.
Dsc, CE:Nov 72:56, on A Possible 1-Point System Method For Laboratory Compaction Testing, CE: Mar 72:78

Schmidt, Phillip M.
Dsc, Proceedings Of The ASCE Specialty Conference On Safety And Reliability Of Metal Structures, CE:June 73:32

Schmidt, Richard T.
Dsc, UP2:Sept 73:261:9966, of "Wisconsin's Shoreland Management Program", UP1:July 72:45: 9054

Schnabel, Harry, Jr.
See K. R. Chapman, PES:73:III-271

Schneider, Arland D.
See Vladimir S. Aronovici, IR1:Mar 72:65:8760

Schneider, Jerry B.
Computer-Aided Design of Urban Transit Systems, with Claus D. Gehner, Dennis Porter and James Clark, Preprint No.2040, July 73

Schneider, Jerry P.
See Alan F. Babb, HY7:July 73:1097:9859

Schnobrich, William C.
Analysis of Hipped Roof Hyperbolic Paraboloid Structures, ST7:July 72:1575:9052
  Dsc: Milo S. Ketchum, ST4:Apr 73:796:9640
  TR:138:359
Dsc, with David A. Pecknold and Chang-Koon Choi, ST8:Aug 72:1885:9079, of "Finite Difference Approach to Hyperbolic Paraboloids", ST2:Feb 72: 429:8730
Dsc, with Mohammad H. Salem, David A. Pecknold and Bijan Mohraz, ST10:Oct 72:2327:9227, of "Nonlinear Stress Analysis of Reinforced Concrete", ST4:Apr 72:885:8845
See Nabil A. Shoeb, EM1:Feb 72:47:8717
See Peter C. Kohnke, ST7:July 72:1493:9033
See Frank R. Hand, ST7:July 73:1491:9860
See Mubadda T. Suidan, ST10:Oct 73:2109:10081

Schoenberger, Robert J.
Incinerator-Residue-Fill Site Investigation, with A. Alexander Fungaroli, SM10:Oct 71:1431:8451
  Dsc: Melvin W. Jackson, SM3:Mar 72:309:8751
  TR:138:65

Schofer, Joseph L.
See Martin Wachs, TE2:May 72:351:8888
See Gorman Gilbert, TE3:Aug 72:691:9112
See G. Scott Rutherford, UP2:Sept 73:157:9985

Schofield, William R.
Stochastic Model of BOD and OD in Segmented Estuary, with Richard G. Krutchkoff, SA5:Oct 72:745:9296
  TR:138:488

Schoon, John C.
New Concepts in Urban Parking, Preprint No.2043, July 73

Schoop, E. Jack
San Francisco BCDC Revisited, CE:Apr 73:71

Schoustra, Jack L.
Superior Pension Plan Helps Attract Employees, with Richard S. Summerhays, CE:Jan 73:58
  Dsc: John H. Meursinge, CE:Apr 73:77

Schrader, Charles R.
Boosting Construction-Worker Productivity, CE:Oct 72:61
  TR:138:458
Motivation of Construction Craftsmen, CO2:Sept 72:257:9185
  Dsc: John D. Borcherding, CO1:July 73:219:9822
  TR:138:453
Professional Education: The Need for Creativity, PP1:Jan 72:85:8654
  Dsc: Richard H. Clough, PP1:Jan 72:93:8621
  TR:138:80

Schreiber, David L.
Obtaining Overland Flow Resistance by Optimization, with Donald L. Bender, HY3:Mar 72:429:8773
  Dsc: Donald E. Overton, HY1:Jan 73:273:9459; Omkar N. Wakhlu, HY1:Jan 73:274:9459
  Clo: HY9:Sept 73:1625:9961
  TR:138:196

Schreyer, Howard L.
Lower Bounds to Column Buckling Loads, with Pen-Yuan Shih, EM5:Oct 73:1011:10064

Schriever, W. R.
See D. E. Allen, STF:73:21

Schroeder, Edward D.
Dsc, EE1:Feb 73:107:9521, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153

Schrotke, P. M.
See D. E. Peterson, PO1:May 73:193:9736

Schultz, A. B.
See Ted Belytschko, Preprint No.2053, July 73

Schumacher, Sheldon
See David A. Novick, PP1:Jan 73:9:9489

Schuster, Ernst
See Herbert Breth, SM8:Aug 73:617:9919

Schuster, Jack C.
Radioisotopes and Turbine Flow Measurement, with Robert L. Hansen, PO1:June 72:1:8959
  TR:138:61

Schwantes, E. Douglas, Jr.
See Arthur Casagrande, PES:72:I-551

Schwartz, Murray A.
See Seymour A. Bortz, EM2:Apr 73:249:9648

Sciandrone, Joseph C.
Environmental Protection Measures at Martis Creek Lake, California, Preprint No.1885, Jan 73

Scordelis, Alexander C.
Structural Response of Concrete Box Girder Bridge, with Jack G. Bouwkamp and S. Tanvir Wasti, ST10:Oct 73:2031:10069
Dsc, with Christian Meyer, ST8:Aug 72:1878:9079, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453
See Christian Meyer, ST10:Oct 71:2459:8434
See Kaspar J. William, ST7:July 72:1377:9013

Scott, David
Scheduling Game for Construction Industry Training, with Graham Cullingford, CO1:July 73:81:9832

Scott, Harold A.
Design Versus Ecology in St. Johns and Indian Rivers, WW4:Nov 72:425:9314
  TR:138:475

Scott, Norman L.
At Hydro Plant, Value Engineering Saves $600,000, with C. T. McCreedy, CE:Mar 73:72
Project Planning and Control by Time-Sharing Computer, with Edward L. Murphree, CO1:Mar 72:37:8758
  TR:138:184

Scott, Norman R.
See Asadul H. Chowdhury, Preprint No.2002, Apr 73

Scott, Richard G.
See Verne E. Smith, HY12:Dec 73:2293:10245

Scott, Ronald F.
See Hon-Yim Ko, SM1:Jan 73:25:9497

Scott, Verne H.
Artificial Recharge in the Urban Environment, with Warren E. Johnston and Joseph C. Scalmanini, HYB:Aug 73:409

Screwvala, Farrokh N.
Dsc, SM5:May 73:412:9692, of "Soil Resistance Predictions from Pile Dynamics", SM9:Sept 72:917:9220

Scroggin, Charles R.
See Edward G. Foree, EE5:Oct 73:639:10043

Seagraves, James A.
Industrial Waste Charges, EE6:Dec 73:873:10203

Seals, Roger K.
Bottom Ash: An Engineering Material, with Lyle K. Moulton and Byron E. Ruth, SM4:Apr 72:311:8817
  TR:138:224

Seed, H. Bolton
Dynamic Characteristics of Soil-Structure Systems, State-of-Art Report 2, TB:73:Ib-6-177
Foundation and Abutment Treatment for High Embankment Dams on Rock by the Committee on Embankment Dams and Slopes of the Soil Mechanics and Foundations Division, SM10:Oct 72:1115:9269
  TR:138:490
Seed Wins Terzaghi Award, CE:Mar 73:59
Settlement of Dry Sands During Earthquakes, with Marshall L. Silver, SM4:Apr 72:381:8844
  Dsc: Sergey Steuerman, SM12:Dec 72:1422:9394; T. Leslie Youd and Terry N. Craven, SM12:Dec 72:1423:9394
  TR:138:264
Simplified Procedure for Evaluating Soil Liquefaction Potential, with Izzat M. Idriss, SM9:Sept 71:1249:8371
  Dsc: John H. Schmertmann, SM4:Apr 72:430:8801; Francois A. Tavenas, SM4:Apr 72:433:8801; Elias Zolkov, SM4:Apr 72:436:8801
  TR:138:8

Soil Conditions and Building Damage in 1967 Caracas Earthquake, with Robert V. Whitman, Houshang Dezfulian, Ricardo Dobry and Izzat M. Idriss, SM8:Aug 72:787:9108
  Dsc: Frank M. Fuller, SM7:July 73:569:9825
  TR:138:423
See N. Dean Marschi, SM1:Jan 72:95:8672
See Ignacio Arango, Preprint No.1979, Apr 73

Seedlock, Robert F.
Transit System Employs Three Modes, CE:May 72:41
  Dsc: Larry Madsen, CE:Aug 72:54
  TR:138:226

Segall, Burton A.
Velocity Profiles and Dispersion in Estuarine Flow, with Erik R. Gidlund, SA4:Aug 72:647:9109
  TR:138:435

Seidler & Associates
Australia Square, TB:73:C-P-418
City Mutual Building, TB:73:C-P-422
M.L.C. Centre, TB:73:C-P-426

Seifert, Eleonora
ASCE Employee Retires With 53 Years Of Service, CE:Aug 73:70

Seim, Charles
See John J. Kozak, CE:June 72:47

Seinwill, Gerald D.
See Bruce Barker, Preprint No.2050, July 73

Seitz, Roger M.
External Transportation, State-of-Art Report 9, TB:73:Ia-1-211

Selander, Carl E.
See Russell C. Borden, CO2:Sept 72:161:9180

Selbe, Rexford L.
Precast Concrete in Residential Construction, UP1:Mar 73:93:9596

Selleck, Robert E.
See Harvey F. Collins, SA5:Oct 71:549:8430
See Harvey F. Collins, SA4:Aug 72:664:9077

Selna, Lawrence G.
Resonant Response of Offshore Structures, with David Cho, WW1:Feb 72:15:8708
  TR:138:155

Selvaraj, Sebastine
Dsc, ST7:July 73:1648:9826, of "High-Rise Panel Structures", ST5:May 72:975:8894
Dsc, ST7:July 73:1650:9826, of "Model Investigations of Shear Wall Structures", ST6:June 72:1223:8936
Dsc, ST11:Nov 73:2311:10113, of "Approximate Inelastic Analysis of Shear Wall-Frame Structures", ST11:Nov 72:2351:9351

Sembler, Eugene L.
Port of San Francisco's LASH Terminal, CE:Apr 73:48
Port Structure Costs, Preprint No.2013, Apr 73

Semrau, Rodolfo
See Arley G. Franklin, SM7:July 73:541:9873

Sen, Arunendu
Dsc, with Anadi Chatterjee, WW2:May 73:283:9694, of "Mathematical Model of River Hooghly", WW2:May 72:225:8866

Sen, B.
Iterative Method for Solving Rectangular Plates, with S. Sengupta and T. K. Nath, ST1:Jan 72:135:8644
  TR:138:113

Sen, Subir K.
Free Vibration of Shells of Revolution Using FEM, with Phillip L. Gould, Preprint No.2077, Oct 73
Hyberboloidal Shells on Discrete Supports, with Phillip L. Gould, TN: ST3:Mar 73:595:9629

Sengupta, S.
See B. Sen, ST1:Jan 72:135:8644

Seni, Alfio
Dsc, ST8:Aug 72:1880:9079, of "Analysis of Horizontally Curved Box Girder Bridges", ST10:Oct 71:2481:8453

Sepp, Endel
Disposal of Domestic Wastewater by Hillside Sprays, EE2:Apr 73:109:9673

Serota, Stanley
A Direct-Reading Pocket Shear Vane, with Anil Jangle, CE:Jan 72:73
  TR:138:63

Sethuraman, Viswanathan
See Avittathur Achyuthan, HY11:Nov 73:2153:10109

Severn, Brian
See G. V. Eckenfelder, CE:May 73:45

Sexsmith, Robert G.
See Sheng-taur Mau, ST9:Sept 72:2043:9195

Sfintesco, Duiliu
Banquet Remarks at the Tall Buildings Conference, TB:73:C-523
Fire and Blast, Summary Report, with Margaret Law and Rowland J. Mainstone, TB:73:Ib-8-739
Fire and Blast, Theme Report, TB:73:Ib-8-463
  Dsc: Calvin H. Yuill, TB:73:Ib-8-679
Historical Steel Frame in France, TB:73:Ia-1-268
La Defense, TB:73:Ia-1-274
Limit States of Composite Structures, TB:73:II-19-895
Tall Buildings, Conference Summary, TB:73:C-505
Tall Buildings in the World (The Viewpoint of a Non-American), TB:73:C-13

Shabrin, A. N.
See I. L. Rozovsky, ISSF:Aug 72:649

Shaffer, Louis R.
Bidding With Competitive Strategy Models, with Terry W. Micheau, CO1:Mar 71:113:8008
  Dsc: James E. Spooner, CO2:Nov 71:345:8482; Thomas L. Morin and Richard H. Clough, CO1:Mar 72:137:8748
  Clo: CO1:July 73:205:9822
  TR:137:939

Shah, Haresh C.
See Carl J. Turkstra, TB:73:Ib-10-919

Shah, Surendra P.
Griffith Fracture Criterion and Concrete, with Fred J. McGarry, EM6:Dec 71:1663:8597
  Dsc: Edwin T. Brown and John A. Hudson, EM5:Oct 72:1310:9221; Madhav S. Marathe, EM5:Oct 72:1312:9221
  Clo: EM2:Apr 73:412:9636
  TR:138:45
Impact Resistance of Ferro-Cement, with William H. Key, Jr., ST1:Jan 72:111:8640
  TR:138:101

Shah, Vipin S.
See Loren D. Lutes, EM4:Aug 73:715:9918

Shahan, James E.
Effects and Control of Highway Traffic Noise, with George W. Kamperman, TE2:May 73:307:9726

Shahane, Ashok N.
Dsc, EE1:Feb 73:97:9521, of "Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division", SA2:Apr 72:299:8833
Dsc, EE4:Aug 73:565:9893, of "Stochastic Population Projection at Design Level", SA6:Dec 72:883:9436

Shamir, Uri
Dsc, HY8:Aug 73:1283:9895, of "Efficient Algorithm For Distribution Networks", HY11:Nov 72:1911:9336
Dsc, EE5:Oct 73:759:10035, of "Optimization of Dead End Water Distribution Systems", EE2:Apr 73:123:9650
See Uri Kirsch, ST1:Jan 72:249:8645
See Yerachmiel Argaman, EE5:Oct 73:703:10050

Shane, Mathew
See Terry Roe, TE3:Aug 73:571:9960

Shannon, Earl E.
Eutrophication Analysis: A Multivariate Approach, with Patrick L. Brezonik, SA1:Feb 72:37:8735
  TR:138:237

Shao, Lawrence C.
See Kanwar K. Kapur, SDNPF:Dec 73:29

Sharifi, Parviz
Nonlinear Buckling Analysis of Sandwich Arches, with Egor P. Popov, EM5:Oct 71:1397:8417
  Dsc: James F. Dickie and Peter Broughton, EM5:Oct 72:1308:9221
  Clo: EM2:Apr 73:411:9636
  TR:138:11

Sharma, A. K.
Investigation of Spherical Shell Foundation, TN: SM6:June 73:489:9815

Sharma, H. D.
Dsc, with D. V. Varshney and Vijay K. Agarwal, HY2:Feb 73:375:9523, of "Einstein Bed-Load Function at High Sediment Rates", HY1:Jan 72:137:8652
Dsc, with D. V. Varshney and Ashutosh K. Agrawal, HY4:Apr 73:684:9637, of "Friction Factors in Solid Material Laden Systems", HY4:Apr 72:681:8854

Sharma, Hari R.
Dsc, HY10:Oct 72:1884:9222, of "Drag Forces on Baffle Blocks in Hydraulic Jump", HY12:Dec 71:2023:8599
See Satya P. Garg, HY3:Mar 71:409:7994

Sharma, Jagat N.
Dsc, PP4:Oct 72:723:9224, of "Systems Approach and the Civil Engineer", PP1:Oct 71:65:8457

Sharma, Satya S.
See Ishwar C. Syal, ST9:Sept 71:2245:8384

Sharp, J. C.
Evaluation of Hydraulic Properties of Rock Masses, with Y. N.T. Maini and T. L. Brekke, RM14:73:481

Sharp, James J.
Dsc, HY9:Sept 71:1571:8345, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994

Sharp, Maurice L.
Thin Aluminum Shear Webs, with John W. Clark, ST4:Apr 71:1021:8048
  Dsc: Robert T. Ratay, ST9:Sept 71:2444:8348
  Clo: ST4:Apr 72:936:8802
  TR:138:5

Sharpe, Roland L.
Seismic Design of Nonstructural Elements, TB:73:Ia-12-1143
Systems Aspects of Seismic Design for Nuclear Plants, PO1:May 73:175:9717

Sharpe, Ron
See John F. Brotchie, UP1:Mar 73:25:9587

Shastry, J. S.
Nonlinear Parameter Estimation in Water Quality Modeling, with L. T. Fan and L. E. Erickson, EE3:June 73:315:9798

Shaver, Robert E.
Former Kentucky Engineering Dean Dies In Florida, CE:Sept 73:117

Shaw, C. H., Jr.
What a Good Safety Program Means, CE:Oct 72:53
  TR:138:447

Shaw, Larry K.
See T. Allan Haliburton, TE2:May 72:325:8870

Shaw, Thomas L.
Integration Of Pumped-Storage With Tidal Power, with Geoffrey R. Thorpe, PO1:Jan 71:159:7810
  Dsc: Mohammad Hanif Chaudhry, PO1:June 72:155:8927
  TR:138:29
Shear Flow Past Circular Cylinder, with Michael R. Starr, HY3:Mar 72:461:8774
  TR:138:201
Tidal Energy from the Bay of Fundy, with J. van den Heuvel, CE:Dec 72:40
  Dsc: Orville T. Magoon, CE:Mar 73:87; G. V. Eckenfelder, J. David Gwynn, Eric M. Wilson and Brian Severn, CE:May 73:45
  TR:138:531
See Charles K. Haswell, PO2:Oct 72:201:9297

Sheahan, James M.
Lime Reclaims Unstable Interior Subgrade During Construction, CE:June 72:74
  TR:138:303

Shedd, Jack P.
Steel Box Girder Makes Handsome Bridge, CE:May 73:67

Sheehey, Roy T.
Financial Tools for a Consulting Firm, CE:Jan 72:66
  TR:138:48

Shen, Chih-Kang
Secondary Consolidation and Strength of a Clay, with Kandiah Arulanandan and Wayne S. Smith, SM1:Jan 73:95:9510
  Errata: SM11:Nov 73:1023:10112

Shen, Hsieh W.
Analysis of Resistance Over Staggered Roughness, with Ruh-Ming Li, TN: HY11:Nov 73:2169:10/47
Dispersion of Contaminated Sediment Bed Load, with Hin Fatt Cheong, HY11:Nov 73:1947:10138
Rainfall Effect on Sheet Flow Over Smooth Surface, with Ruh-Ming Li, HY5:May 73:771:9733
See Suryanarayana Bhamidipaty, WW4:Nov 71:615:8493
See Ruh-Ming Li, HY5:May 73:793:9748

Shepherd, Robin
Seismic Response Predictions of Bridge Pier, with Richard E. McConnel, EM3:June 72:609:8949
  TR:138:256

Sherard, James L.
Earth and Earth-Rock Dams -- Reporter's Summary, PES:73:III-77

Hydraulic Fracturing in Low Dams of Dispersive Clay, with Rey S. Decker and Norman L. Ryker, PES:72:I-653
  Dsc: O. G. Ingles, PES:73:III-119; Gordon L. Bell, PES:73:III-127; R. A. Rallings, PES:73:III-131; Aurelio Bemassini Vizcaino and Vicente Casales Lattuada, PES:73:III-135
  Clo: PES:73:III-143
Piping in Earth Dams of Dispersive Clay, with Rey S. Decker and Norman L. Ryker, PES:72:I-589
  Dsc: Edward D. Graf and Harpal S. Arora, PES:73:III-105; Aldo R. Reginatto, PES:73:III-107; O. G. Ingles, PES:73:III-111; Gordon L. Bell, PES:73:III-127; R. A. Rallings, PES:73:III-131; Aurelio Bemassini Vizcaino and Vicente Casales Lattuada, PES:73:III-135
  Clo: PES:73:III-143
Potentially Active Faults in Dam Foundations, with Lloyd S. Cluff, Preprint No.1948, Apr 73
Dsc, HY11:Nov 73:2148:10109, of "Damage to Karnafuli Dam Spillway", HY12:Dec 72:2155:9452

Sherbourne, Archibald N.
Plastic Analysis of Anisotropic Disks and Plates, with Sridhara D.N. Murthy, EM1:Feb 72:11:8694
  Errata: EM1:Feb 73:225:9522
  TR:138:59
Post-Buckling of Axially Compressed Plates, with Robert M. Korol, ST10:Oct 72:2223:9239
  TR:138:477
See Robert M. Korol, ST9:Sept 72:1965:9194
See Helmut M. Haydl, TN: EM6:Dec 73:1309:10187

Sherif, Mehmet A.
Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, with Robert J. Strazer, SM1:Jan 73:111:9511
  Dsc: Birger Schmidt, SM8:Aug 73:640:9892; David A. Howells, SM10:Oct 73:899:10038; Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle, Yudhbir and B. Prasad, SM11:Nov 73:1023:10112

Sherlock, Robert H.
Memoir of, TR:138:639

Sherman, Donald R.
"Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division, ST7:July 72:1545:9055
  Dsc: P. C. Varghese and C. Ganapathy Chettiar, ST7:July 73:1663:9826
  TR:138:365

Sherman, Zachary
Residential Buildings Engineered to Resist Tornadoes, ST4:Apr 73:701:9668

Sherrard, Joseph H.
Design and Operation Model of Activated Sludge, with Alonzo W. Lawrence, EE6:Dec 73:773:10220

Sherwood, Gerald E.
Wood Structures Can Resist Hurricanes, CE:Sept 72:91
  TR:138:417

Shiau, Jong-Chiang
Adjustment of Friction in Hydraulic Models of Lakes, with Ralph R. Rumer, Jr., HY12:Dec 73:2251:10222

Shieh, William Y.J.
See Chang-hua Yeh, PO2:Nov 73:339:10141

Shields, Donald H.
Passive Pressure Coefficients by Method of Slices, with A. Zeki Tolunay, SM12:Dec 73:1043:10221

Shields, John M.
Project Planning, SU1:July 72:61:9041
  Errata: SU1:Sept 73:136:9965
  TR:138:202
Surveying Safety, with Jack J. Wilks, SU1:July 72:67:9057
  Errata: SU1:Sept 73:139:9965
  TR:138:364

Shih, Pen-Yuan
See Howard L. Schreyer, EM5:Oct 73:1011:10064

Shin, Byong S.
Dsc, with Richard I. Dick, SA5:Oct 72:799:9225, of "Backwashing of Granular Water Filters", SA6:Dec 71:903:8605

Shinozuka, Masanobu
Probabilistic Modeling of Concrete Structures, EM6:Dec 72:1433:9448
  TR:138:598
Safety Against Dynamic Forces, Preprint No.2323, Apr 73
See Yi-Kwei Wen, WW2:May 72:177:8889
See Rimas Vaicaitis, ST3:Mar 73:453:9634
See Rimas Vaicaitis, Preprint No.1939, Apr 73

Shiozawa, Sam
Dual-Purpose Desalting in Pacific Southwest, HY1:Jan 72:201:8673
  TR:138:140

Shiraishi, Shunta
See Takuya Ohira, CE:May 72:55

Shirley-Smith, Hubert
Dsc, ST11:Nov 72:2637:9307, of "Main Cables of Newport Suspension Bridge", ST12:Dec 71:2825:8606

Shklarsky, Elisha
See Jacob Uzan, TE1:Feb 72:17:8695

Shockey, D. A.
Failure of Rock Under High Rate Tensile Loads, with C. F. Petersen, D. R. Curran and J. T. Rosenberg, RM14:73:709

Shoeb, Nabil A.
Elastic-Plastic Analysis of Cylindrical Shells, with William C. Schnobrich, EM1:Feb 72:47:8717
  Dsc: Morris N. Fialkow, EM6:Dec 72:1601:9390
  Clo: EM5:Oct 73:1087:10041
  TR:138:96

Shoemaker, Daniel L
See Teh-Yuh Kao, HYB:Aug 73:349

Shukair, Abla
See Assad Abdul-Baki, ST10:Oct 73:2183:10108

Shukla, Devendra K.
Statics of Random Beams, with Robert M. Stark, EM6:Dec 72:1487:9449
  Errata: EM5:Oct 73:1100:10041
  TR:138:600
See Robert M. Stark, TN: EM2:Apr 73:434:9641

Shukla, Manoj Kumar
See Singamsetti Surya Rao, HY11:Nov 71:1807:8515

Shumate, Ronald P.
The Engineering Technician: An Underutilized Resource, CE:Feb 72:64
  TR:138:98

Shunk, Gordon
See Davit Fresko, UP1:July 72:1:9017

Shutt, Harold E.
The State's Role in Gas Safety, TE1:Feb 72:45:8700
  TR:138:46

Siddall, James N.
Model Test and Analysis of Oblique Folded Plate Structure, with Mohammed Ali Dokainish and Maung M. Win, ST6:June 73:1043:9772

Sigbjornsson, Ragnar
See Julius Solnes, ST3:Mar 73:381:9585

Sikes, Philip G.
Disposal and Uses of Power Plant Ash in Urban Area, with Henry J. Kolbeck, PO1:May 73:217:9741

Silberman, David J.
Dsc, EE5:Oct 73:752:10035, of "Stochastic Population Projection at Design Level", SA6:Dec 72:883:9436

Silberman, Edward
Warm Water Discharges into Lakes and Reservoirs, ISSF:Aug 72:433
Dsc, HY4:Apr 73:699:9637, of "Evaluating Water Surface Heat Exchange Coefficients", HY8:Aug 72:1411:9118

Silver, Marshall L.
Noise and Vibration Control in New Rapid Transit, TE4:Nov 72:891:9382
TR:138:579
See H. Bolton Seed, SM4:Apr 72:381:8844

Silverman, Isadore K.
Dsc, EM2:Apr 73:418:9636, of "End Effects in Truncated Semi-Infinite Wedge", EM5:Oct 72:1239:9251

Simanton, J. Roger
See Kenneth G. Renard, HY9:Sept 73:1647:9961

Simiu, Emil
Gust Factors and Alongwind Pressure Correlations, ST4:Apr 73:773:9686
Dsc: Joseph Vellozzi, ST11:Nov 73:2332:10113
Logarithmic Profiles and Design Wind Speeds, EM5:Oct 73:1073:10100
Wind Spectra and Alongwind Structural Response, Preprint No.2086, Oct 73

Simmons, Don
See Charles A. Monaghan, CE:June 73:85

Simon, Harold
See George Bugliarello, TB:73:Ia-1-270

Simon, L. U.
Tall Buildings in Australia -- Construction Trends, TB:73:Ia-4-793

Simons, Daryl B.
Predicting Stages on Sand-Bed Rivers, with Michael A. Stevens and James H. Duke, Jr., WW2:May 73:231:9731
See Hai Yain Chang, WW1:Feb 71:155:7869
See Paul H. Blinco, HYB:Aug 73:43
See Michael A. Stevens, HY9:Sept 73:1634:9961
See Saeed A. Rana, HY11:Nov 73:1967:10168
See Ruh-Ming Li, HY11:Nov 73:2145:10109

Sinclair, Benito A.
Reflection on My Profession by a Black Civil Engineer, Preprint No.1901, Jan 73
Reflections on My Profession by a Black Civil Engineer, PP3:July 73:357:9884
See Sol E. Cooper, PP3:July 72:431:9075

Sinclair, Robert A.
See Krishan P. Singh, HY1:Jan 72:29:8639

Singaraj, N. M.
Nonlinear Elastic Truss Analysis Partitioning, with Jawalker K. Sridhar Rao, ST11:Nov 72:2399:9364
TR:138:562

Singer, Harold J.
What Graduate Students Want From ASCE, Preprint No.1971, Apr 73
What Graduate Students Want From ASCE, PP3:July 73:313:9881

Singer, Philip C.
Dsc, with Thomas L. Theis, SA5:Oct 72:784:9225, of "Anaerobic Digestion of Sludge Containing Iron Phosphate", SA5:Oct 71:629:8432
See Wayne F. Echelberger, Jr., SA5:Oct 71:721:8472

Singh, Krishan P.
Two-Distribution Method for Flood Frequency Analysis, with Robert A. Sinclair, HY1:Jan 72:29:8639
Dsc: Darryl W. Davis, HY9:Sept 72:1730:9156; Richard H. Hawkins, HY10:Oct 72:1885:9222; Lucien Duckstein and Chester C. Kisiel, HY12:Dec 72:2241:9391
Clo: HY7:July 73:1152:9823
TR:138:100

Singh, M. P.
Probabilistic Treatment of Problems in Nuclear Power Plant Design, with Andy Morcos and Shih-Lung Chu, SDNPF:Dec 73:263

Singh, Madan M.
Large Scale Triaxial Tests on Rock, with Peter J. Huck, RM14:73:35

Singh, Pratap
Shape Factors in Irrigation Water Advance Equation, with H. S. Chauhan, IR3:Sept 72:443:9212
Dsc: Donald I. Norum, IR4:Dec 73:513:10183
TR:138:502
Dsc, with H. S. Chauhan, IR1:Mar 73:111:9581, of "Recession Flow in Surface Irrigation", IR1:Mar 72:77:8764
Dsc, with H. S. Chauhan, IR2:June 73:186:9761, of "Prediction of Irrigation Advance Function by Dimensional Analysis", IR2:June 72:247:8939

Singh, Prem Raj
See Satya P. Garg, HY5:May 71:653:8091

Singh, R.
See W. Karwoski, RM14:73:752

Singh, Vijay P.
Dsc, HY7:July 73:1194:9823, of "University of Cincinnati Urban Runoff Model", HY10:Oct 72:1789:9298
Dsc, HY10:Oct 73:1891:10037, of "Predicting Sediment Yield in Western United States", HY12:Dec 72:2073:9432

Sinha, Kumares C.
Statistical Decision in Forecasting Planning Data, TE4:Nov 72:865:9366
TR:138:547
See Masatoshi A. Abe, TE1:Feb 73:83:9551

Sipola, J. W.
See C. C. Hanninen, RM14:73:623

Siu, Wilfred W.C.
Some Aspects of Office Design Live Loads, with Niels C. Lind, ST11:Nov 73:2245:10159
See Mayasandra K. Ravindra, Preprint No.2023, Apr 73

Skaggs, R. Wayne
Irrigation Through Subsurface Drains, with George J. Kriz and Reynaldo Bernal, IR3:Sept 72:363:9183
TR:138:460

Skermer, Nigel A.
Dsc, SM4:Apr 73:356:9639, of "Stresses and Movements in Oroville Dam", SM7:July 72:653:9016

Dsc, SM8:Aug 73:644:9892, of "Constructional Deformations in Rockfill Dam", SM2:Feb 73:139:9560

Skidmore, Owings & Merrill
Chestnut-DeWitt Apartments, TB:73:C-P-496
The Chicago Civic Center, TB:73:C-P-492
First Wisconsin Center, TB:73:C-P-494
John Hancock Center, TB:73:C-P-498
One Shell Plaza, TB:73:C-P-488
One Shell Square, TB:73:C-P-490
Sears Tower, TB:73:C-P-500
Tour Apogee, TB:73:C-P-486

Skinner, E. H.
Rock Property Correlation, Crescent Mine, Idaho -- Abstract, with G. G. Waddell, P. C. McWilliams and B. J. Scheibner, RM14:73:754

Skinner, Morris M.
See James F. Ruff, HYB:Aug 73:305

Skinner, Robert A.
Dsc, PP4:Oct 73:539:10040, of "Nader's Raiders Versus California Water Project", PP1:Jan 73:39:9490

Skjelbreia, Lars
See Yuan Jen, HY11:Nov 73:2135:10109

Skogerboe, Gaylord V.
Changing Role of Water Conveyance Systems, with Wynn R. Walker, Preprint No.1880, Jan 73
Comparison of Bridge Backwater Relations, with J. W. Hugh Barrett, Wynn R. Walker and Lloyd H. Austin, HY6:June 73:921:9799
Generalized Discharge Relations for Cutthroat Flumes, with Ray S. Bennett and Wynn R. Walker, IR4:Dec 72:569:9438
TR:138:601
See J. W. Hugh Barrett, HY7:July 73:1043:9841

Skop, Richard A.
See G. J. O'Hara, ST3:Mar 73:590:9583

Skow, Floyd A.
Dsc, CE:Jan 73:84, on In-Line Structure Stores and Treats Combined Overflows, CE:Sept 72:62

Skully, R. P.
Recent Advances in Aircraft Noise Reduction, ASC73:Mar 73:43

Skundric, Lazar I.
Structural Modeling and Analysis of Containment Internal Structures, SDNPF:Dec 73:343

Slichter, Donald C.
Engineering and Today's Social Problems, CE:Mar 72:64
Dsc: Charles W. Griffin, Jr., CE:May 72:40; Daniel B. Halton, CE:May 72:40; Ray R. Davis, CE:July 72:77; Michael A. Murphy, CE:Aug 72:64; Ernest T. Ianni, CE:Sept 72:61
TR:138:147

Sliepcevich, Cedomir M.
See Hadi T. Hashemi, SM3:Mar 73:267:9630

Slocum, Ray R.
Submerged-Tube Tunnel in Mobile, CE:Aug 72:49
TR:138:368

Slotta, Larry S.
See Tokuo Yamamoto, HYB:Aug 73:155

Small, Gary G.
See L. G. Wilson, HYB:Aug 73:427

Small, Sam W.
Structural Considerations in the Design of Submarine Pipelines, Preprint No.1974, Apr 73

Smirnoff, Timothy P.
See Surendra K. Saxena, TN: SM10:Oct 73:912:10042

Smith, Anthony F.
See Kazimierz Adamowski, HY11:Nov 72:1935:9353

Smith, Billy E.
Environmental Considerations Applicable to Petroleum Terminals, Preprint No.2067, Oct 73

Smith, Bryan Stafford
Elastic Analysis of Tall Concrete Buildings, State-of-Art Report 1, with Alexander Coull, TB:73:III-21-157
See Alexander Coull, TN: ST1:Jan 73:229:9464
See Arthur C. Heidebrecht, ST2:Feb 73:199:9550
See Arthur C. Heidebrecht, ST12:Dec 73:2355:10234

Smith, Charles D.
Dsc, IR1:Mar 72:162:8750, of "Free Overfall As Flow Measuring Device", IR1:Mar 71:73:7987

Smith, Charles E.
See Richard F. Dominguez, ST8:Aug 72:1817:9127

Smith, Clifford D.
Modified USBR Impact Basin, with Elias M. Korolischuk, TN: HY1:Jan 73:153:9463

Smith, Douglas V.
Systems Analysis and Irrigation Planning, IR1:Mar 73:89:9625
Dsc, SA6:Dec 72:1055:9393, of "Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division", SA2:Apr 72:299:8833

Smith, G. G.K.
Consturction Practices in the U.K., TB:73:Ia-4-816

Smith, J. C.
Field Analysis of Torsionless Bridge Grids, with Donald L. Dean, ST9:Sept 73:1837:10031
See Hota V.S. GangaRao, EM3:June 72:679:8993

Smith, J. L.
See Richard B. Fallgren, Preprint No.2014, Apr 73

Smith, Jimmy H.
Nonlinear Beam and Plate Elements, ST3:Mar 72:553:8768
TR:138:158

Smith, Kenneth V.H.
Computer Programming for Flow Over Side Weirs, HY3:Mar 73:495:9626
See Christopher John Pratt, HY5:May 72:859:8912

Smith, Robert D.
Parameters Necessary for Analyzing Thermal Bioassays, SA6:Dec 72:973:9440
TR:138:569

Smith, Roger E.
Border Irrigation Advance and Ephemeral Flood Waves, IR2:June 72:289:8979
TR:138:370
Rainfall Excess Model from Soil Water Flow Theory, with Don L. Chery, Jr., HY9:Sept 73:1337:9990
Dsc, IR3:Sept 73:404:9962, of "Subsurface Hydrograph Analysis by Convolution", IR3:Sept 72:405:9213

Smith, Scott S.
See Kandiah Arulanandan, SM12:Dec 73:1113:10235

Smith, Verne E.
Elevation Dependent Model for Estimating Annual Runoff, with Donald A. Anderson and Richard G. Scott, HY12:Dec 73:2293:10245

Smith, Wayne S.
See Chih-Kang Shen, SM1:Jan 73:95:9510

Smith, William L.
Quantifying the Environmental Impact of Transportation Systems, Preprint No.2049, July 73

Smyers, Daniel J.
Civil Engineer's Compensation - ASCE's Future, PP4:Oct 72:557:9226
Dsc: David Allen, PP3:July 73:415:9824
TR:138:500

Snell, Robert R.
See Peter B. Cooper, ST3:Mar 72:611:8791

Snethen, Donald R.
See T. Allan Haliburton, TE2:May 72:325:8870

Snyder, Julian
See Subhash C. Anand, ST1:Jan 73:145:9513

Snyder, Willard M.
Subsurface Hydrograph Analysis by Convolution, with Loris E. Asmussen, IR3:Sept 72:405:9213
Dsc: Roger E. Smith, IR3:Sept 73:404:9962
TR:138:514

Soane, Alastair J.M.
Old Hall Street Development -- Liverpool, TB:73:C-P-231

Sobey, Rodney J.
See Paul Minton, HY1:Jan 73:1:9468

Sobsey, Mark D.
Virus Removal and Inactivation by Physical-Chemical Waste Treatment, with Craig Wallis, M. Floyd Hobbs, A. C. Green and Joseph L. Melnick, EE3: June 73:245:9778

Sofronie, Ramiro
Tall Buildings Elastically Coupled, TB:73:Ia-3-637

Sokolov, A. G.
Weight Analysis of Braced Frames for Prismatic Tall Buildings, State-of-Art Report 11, TB:73:Ia-3-603

Sokolov, B. I.
Numerical Methods of Investigation into Stratified Flows, ISSF:Aug 72:659

Sollitt, Charles K.
See Ralph H. Cross, WW3:Aug 72:295:9137

Sollo, Frank W.
See Thomas Micka, TN: EE6:Dec 73:971:10186

Solnes, Julius
Along-Wind Response of Large Bluff Buildings, with Ragnar Sigbjornsson, ST3:Mar 73:381:9585

Soltis, Lawrence A.
Finite Deformation of Biaxially Loaded Columns, with Paul P. Christiano, ST12:Dec 72:2647:9407
Dsc: Robert Hutchings, ST11:Nov 73:2313:10113; Sundaramoorthy Rajasekaran and David W. Murray, ST11:Nov 73:2315:10113
TR:138:568

Somes, Norman F.
Progressive Collapse Risk, TB:73:Ib-8-727

Song, Charles C.S.
Stochastic Analysis of Air and Water Temperatures, with Arthur F. Pabst and C. Edward Bowers, EE6: Dec 73:785:10209

Sonnen, Michael B.
Quality Related Costs of Regional Water Users, HY10:Oct 73:1849:10076

Sonnichsen, John C., Jr.
See George F. Bailey, PO1:June 72:175:8927
See D. E. Peterson, PO1:May 73:193:9736

Sontag, Hansjurgen
Precast Composite Flooring, State-of-Art Report 10, TB:73:Ia-3-591

Soong, T. T.
Identification of Random Systems and Applications, Preprint No.2001, Apr 73

Soong, Tsai-Chen
Column Supported by Side-Beams, EM6:Dec 73: 1217:10238

Sorensen, Robert M.
Water Waves Produced by Ships, WW2:May 73:245: 9754

Soretz, Stefan
Stiffness Requirements in Terms of Human Comfort, State-of-Art Report 5, with Helmut Holzenbein, TB:73:III-24-701

Soriano, Antonio
See Raymond J. Krizek, IR2:June 73:169:9807

Sornberger, G. Clinton
Simulation of Dissolved Oxygen Profile, with Krishnaswamingar Keshavan, EE4:Aug 73:479:9943
See Krishnaswamingar Keshavan, EE5:Oct 73:569: 10045

Soule, Harvey F.
The Nuclear Fuel Cycle and Waste Production, Preprint No.2093, Oct 73

Soussou, Joseph
Statistical Theory for Viscoelastic Materials, with Fred Moavenzadeh, EM5:Oct 72:1205:9289
TR:138:532

Sowell, Florentine
See Arthur Saltzman, TE4:Nov 72:855:9369

Sowers, George Bloomer
Memoir of, TR:138:640

Sowers, George F.
Changed Soil and Rock Conditions in Construction, CO2:Nov 71:257:8509
Dsc: Edward A. Abdun Nur, CO2:Sept 72:362: 9155; William G. Thorpe, CO2:Sept 72:363: 9155
Clo: CO1:July 73:207:9822
TR:138:83
Remote Sensing for Water Resources, CE:Feb 73:35

Sozen, Mete A.
See Alex E. Cardenas, ST11:Nov 72:2587:9368
See Shunsuke Otani, Preprint No.1976, Apr 73

Spark, Howard G.
The Development of a New Borehole Extensometer - - Abstract, RM14:73:756

Sparks, Robert
See Thomas H. Hanna, SM11:Nov 72:1187:9338

Spence, James C.
Dsc, A Complete Guide To Fire And Buildings, CE: July 73:30

Spencer, Graham K.
See Peter J. Moore, SM11:Nov 72:1225:9360

Spencer, James R.
See Sterling J. Richards, IR4:Dec 73:457:10243

Spencer, Jim
See David Brenchley, CE:Mar 73:83

Spencer, Max M.
The 747 Fatigue and Fail Safe Testing, Preprint No.1992, Apr 73

Speranskaya, A. A.
See E. P. Anisimova, ISSF:Aug 72:475

Sperry, Samuel A.
Tax Allocation Bonds in California, UP2:Sept 73:147:9991

Spiegler, D. B.
See Eugene J. Aubert, IR1:Mar 72:49:8787

Spielberg, Franklin
See Davit Fresko, UP1:July 72:1:9017

Spillers, William R.
On Adaptive Structural Design, with Lewis Friedland, ST10:Oct 72:2155:9245
TR:138:480

Spira, Ephraim
Dsc, with Jacob Gluck, ST6:June 72:1339:8930, of "Earthquake Design Formula Considering Local Soil Conditions", ST9:Sept 71:2383:8399

Spivak, Eldad
See Yerachmiel Argaman, EE5:Oct 73:703:10050

Spofford, Walter O., Jr.
See Daniel P. Loucks, EE6:Dec 73:813:10202

Spooner, James E.
Dsc, CO2:Nov 71:345:8482, of "Bidding With Competitive Strategy Models", CO1:Mar 71:113:8008

Spracklen, Robert W.
Repair of Earthquake Damage at Holy Cross Hospital, Los Angeles (Mission Hills), California, Preprint No.1941, Apr 73

Springfield, John
Aspects of Column Design in Tall Steel Buildings, with Peter F. Adams, ST5:May 72:1069:8911
TR:138:258
Codes and Model Testing, TB:73:Ib-7-431
Dsc, ST2:Feb 72:523:86 , of "Strength of Load-Bearing Masonry Walls", ST5:May 71:1593:8143

Sprinkle, Howard B.
Analysis of Time-Lapse Construction Films, CO2:Sept 72:183:9190
Errata: CO1:July 73:223:9822
TR:138:502

Squaree, David
Dsc, HY10:Oct 71:1775:8407, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual", HY1:Jan 71:101:7786

Sridharan, Kalambur
See Nagar S. Lakshmana Rao, HY11:Nov 72:2015:9370

Sridharan, S.
See Madasamy Arockiasamy, ST1:Jan 73:206:9462

Sridhar Rao, Jawalker K.
See N. M. Singaraj, ST11:Nov 72:2399:9364

Srinivasan, R.
Fatigue Damage in Seismic Steel Members, with William H. Munse, TB:73:II-18-814

Sriramulu, Stuart G.
Dsc, with G. Padmanabhan, HY3:Jan 73:269:9459, of "Effect of Transportation Planning on Flood Plain Management", HY3:Mar 72:475:8761

Sriruang, S.
The Relation of Mineralogy and Microstructure to the Morphology and Trajectory of Rock Fractures Resulting from Dynamic Tensile Stress -- Abstract, with B. Hamil, RM14:73:750

Stafford, Joseph H.
See Richard de Neufville, SA6:Dec 71:825:8575

Stamato, Miguel Carlos
Three-Dimensional Analysis of Tall Building, State-of-Art Report 4, TB:73:III-24-683
Three-Dimensional Interaction of Walls and Frames, with E. Mancini, ST12:Dec 73:2375:10193

Stamatopoulos, Aris C.
Embankment Construction On Yielding Sea Bottom, with Panaghiotis C. Kotzias, SM7:July 72:727:9066
Dsc: R. T. Murray, SM4:Apr 73:360:9639; N. Bhavanishankar Rao, SM7:July 73:568:9825
TR:138:391

Stankosky, Michael
See Anthony N. Palazotto, Preprint No.2030, Apr 73

Stanley, C. Maxwell
The Engineer and the Environment, CE:July 72:78
TR:138:352

Stanzak, W. W.
Fire Resistance of Unprotected Steel Columns, with T. T. Lie, ST5:May 73:837:9719

Starfield, A. M.
Elastic Analysis of Single Seam Extraction, with S. L. Crouch, RM14:73:421

Stark, Douglas A.
Facilities Planning in Rural Alaska, UP2:Sept 73:247:9970

Stark, Robert M.
Elements of Random Vector Analysis, with Devendra K. Shukla, TN: EM2:Apr 73:434:9641
See Devendra K. Shukla, EM6:Dec 72:1487:9449

Starnes, James H., Jr.
See Bo O. Almroth, Preprint No.1936, Apr 73

Starr, Michael R.
See Thomas L. Shaw, HY3:Mar 72:461:8774

Stastny, Francis J.
Environmental Aspects of Pipeline Route Selection, Preprint No.2076, Oct 73
Joint Utilization of Rights-of-Way, TE2:May 72:299:8880
TR:138:130

Stefan, Heinz
Dilution of Buoyant Two-Dimensional Surface Discharges, HY1:Jan 72:71:8653
TR:138:124
Impact of Cooling Water on Lake Temperatures, with Chung-Sang Chu and Ho Wing, PO2:Oct 72:253:9241
TR:138:392
Spread and Dilution of Three-Dimensional, Rectilinear Heated Water Surface Jets, ISSF:Aug 72:663

Steiert, Clarence J.
See Edward A. Cecil, PO1:June 72:11:8967

Steinborn, Sydney
See Phillip L. Cole, Preprint No.1916, Jan 73

Steinbrugge, Karl V.
Earthquake Hazard and Public Policy in California, with Carl B. Johnson, Preprint No.2009, Apr 73
Earthquake Hazard and Public Policy in California, with Carl B. Johnson, PP4:Oct 73:513:10105

Steinhardt, Otto
Design Methods Based on Stiffness, Theme Report, TB:73:II-17-611

Steinhardt, Otto W.
Dsc, CE:Feb 73:65, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE: Aug 72:55
Dsc, CE:Mar 73:48, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE: Aug 72:55
Dsc, CE:July 73:22, on Nitrate Removed at Water Treatment Plant, CE:Apr 73:45

Stelle, William W.
Dsc, CE:Oct 73:34, on "Quo Vadis, ASCE?", CE: June 73:59

Stemple, Omar S.
See Kenneth Medearis, CE:July 73:82

Stenburg, Robert L.
See Francis M. Middleton, SA3:June 72:515:8956

Stenhouse, Michael H.
See Robert L. Stoy, HY9:Sept 73:1585:9999

Stensel, H. David
Dsc, EE3:June 73:388:9758, of "Process Kinetics for Denitrification", SA4:Aug 72:623:9153

Stepanich, Fred C.
See Thomas L. Adams, SM11:Nov 73:957:10161

Stephen, R. M.
See Jack G. Bouwkamp, TE3:Aug 73:521:9907

Stephens, Malcolm N.
Santa Ana Valley Pipeline as a Structure, with James U. McDaniel, Preprint No.1946, Apr 73

Stephenson, Dale E.
Influence of Loading Rate On Rock Response, with George E. Triandafilidis, Preprint No.2004, Apr 73

Stephenson, John
See Imamuddin Khwaja, ST1:Jan 73:33:9473

Stern, Helman I.
Regional Interindustry Solid Waste Forecasting Model, EE6:Dec 73:851:10214

Sternberg, Yaron M.
Well Efficiency and Skin Effect, TN: IR2:June 73: 203:9766

Steuerman, Sergey
Dsc, SM12:Dec 72:1422:9394, of "Settlement of Dry Sands During Earthquakes", SM4:Apr 72:381:8844

Stevens, Charles J.
Guideline: Employer--Engineer Relationship, Committee on Employment Conditions of the Professional Practice Division, PP4:Oct 72:523: 9279
  Dsc: PP3:July 73:416:9824; C. Allen Wortley, PP4:Oct 73:535:10040
  TR:138:583
1971 ASCE Salary Survey, the Committee on Employment Conditions of the Department of Professional Activities, PP3:July 72:393:9025
  Errata: PP1:Jan 73:131:9460
  TR:138:347

Stevens, Herbert H., Jr.
Model for Sediment Transport through an Estuary Cross Section, with David W. Hubbell and Jerry L. Glenn, HYB:Aug 73:279

Stevens, Karl K.
Dsc, EM5:Oct 73:1099:10041, of "Beams Subjected to a Follower Force Within the Span", EM6:Dec 72:1353:9441

Stevens, Leonard K.
Design Developments - Asia & Australia, State-of-Art Report 4, TB:73:Ib-7-399
See Geoffrey D. Base, ST10:Oct 73:2123:10055

Stevens, Michael A.
Dsc, with Daryl B. Simons, HY9:Sept 73:1634:9961, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198
See Daryl B. Simons, WW2:May 73:231:9731

Stewart, Donald A.
See Shu-t'ien Li, CO2:Sept 72:173:9181

Stewart, J. Ian
Functions to Predict Effects of Crop Water Deficits, with Robert M. Hagan, IR4:Dec 73:421:10229
See Robert M. Hagan, IR2:June 72:215:8955

Steyert, Richard D.
The Economics of High-Rise Apartment Buildings of Alternate Design Configuration, EHRA:72: TR:138:387
The Economics of High-Rise Apartment Buildings, State-of-Art Report 4A, TB:73:Ia-1-103

Stiassnie, Michael
Wave Defraction by Detached Breakwater, with Gedeon Dagan, WW2:May 72:209:8869
  Dsc: Yoshimi Goda and Tomotsuka Yoshimura, WW2:May 73:285:9694
  TR:138:265

Stiller, Manfred
Quality Control of Concrete in Germany, TB:73:Ib-9-897
Review of Codes of Practice in West European Countries-Concrete Tall Buildings, State-of-Art Report 2, TB:73:III-20-45

Stine, Marvin D.
See John A. Roberson, HY7:July 72:1187:9061

Stocks, Brian B.
See Norman A. Cyr, ST7:July 72:1585:9068

Stokey, Stanley R.
Citizens Participation and the New Environmentalism, UP1:Mar 73:69:9599

Stokoe, Kenneth H., II
In Situ Shear Wave Velocity by Cross-Hole Method, with Richard D. Woods, SM5:May 72:443:8904
  Dsc: Wolfgang A. Haupt, SM2:Feb 73:224:9524; Karmvir S. Tyagi, SM4:Apr 73:351:9639
  Clo: SM11:Nov 73:1014:10112
  TR:138:293

Stoll, Ulrich W.
Torque Shear Test For Cylindrical Friction Piles, CE: Apr 72:63
  TR:138:203

Stone, Ralph
Water and Sewage Sludge Absorption by Solid Waste, with Richard L. Kahle, SA5:Oct 72:731: 9250
  Errata: EE5:Oct 73:746:10035
  TR:138:467

Stout, Maurice C.
Long Range Planning for Metropolitan Water Service, with J. Darrell Bakken, Preprint No.1888, Jan 73

Stoy, Robert L.
Vortex Containment of Submerged Jet Discharge, with Michael H. Stenhouse and Anthony Hsia, HY9:Sept 73:1585:9999

Stoykovich, Milomir
Seismic Design and Analysis of Nuclear Plant Components, SDNPF:Dec 73:1

Strakosch, George R.
Horizontal Versus Vertical Transportation, TB:73:Ia-2-375

Strand, Donald R.
Earthquake Repairs, Kaiser Hospital, Panorama City, California, Preprint No.1996, Apr 73

Strandberg, Edwin F.
Dsc, EM5:Oct 72:1306:9221, of "Torsion of Multilayered Rectangular Section", EM5:Oct 71: 1451:8415

Strasser, Gabor
Technology Assessment - What It Means to the Civil Engineer, PP1:Jan 73:111:9512

Strating, John
Loading Function, State-of-Art Report 2, TB:73:II-19-849

Strauss, Albert C.
Dsc, CE:May 73:57, on Rehabilitating Chicago's Expressways, CE:Dec 72:59

Strauss, Max W.
Dsc, CE:Nov 72:49, on The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE: Aug 72:55

Strazer, Robert J.
See Mehmet A. Sherif, SM1:Jan 73:111:9511

Street, Robert L.
See Ahmed El Nimur, IR1:Mar 72:13:8777

Streeten, Basil R.
Dsc, IR2:June 72:339:8926, of "Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division", IR4:Dec 71: 601:8613

Streeter, Victor L.
Soil Motion Computations by Characteristics Method, with E. Benjamin Wylie and Frank E. Richart, Jr., Preprint No.1952, Apr 73

Strelkoff, Theodor S.
See Mohammad S. Moayeri, HY4:Apr 73:653:9680
See John G. Sakkas, HY12:Dec 73:2195:10233

Strikney, Wallace E.
Dsc, CE:Dec 72:31, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107

Stringer, Richard
Amoebic Cysticidal Properties of Halogens in Water, with Cornelius W. Kruse, SA6:Dec 71:801:8567
  Dsc: Malay Chaudhuri, SA4:Aug 72:674:9077
  Clo: EE2:Apr 73:156:9635
  TR:138:98

Strobel, Peter A.
Engineers' Inquiry Box: Roof-Tie Downs For Wind Uplift, CE:Dec 73:64

Strom, Edlund
See Gosta E. Sandstrom, CE:Sept 73:78

Strombom, Donald R.
Dsc, PP1:Jan 73:128:9460, of "The Civil Engineer in the Multidisciplinary Design Team", PP2:Apr 72: 221:8826

Stroppini, Elmer W.
Foundation Treatment for Embankment Dams on Rock, with Donald H. Babbitt and Henry E. Struckmeyer, SM10:Oct 72:1073:9274
  TR:138:493

Struckmeyer, Henry E.
See Elmer W. Stroppini, SM10:Oct 72:1073:9274

Strunk, Jo Chen
Electrical Systems in Tall Buildings, State-of-Art Report 5, TB:73:Ia-2-349

Stuart, John Gordon
See William James Neely, SM9:Sept 73:669:9980

Stuart, Richard J.
Vibration of Circular Plates with Edge-Beams, with John F. Carney, TN: EM4:Aug 73:907:9898

Su, Chih-Lan
Asymptotic Solutions of Resonances in Harbors With Basins, WW3:Aug 73:375:9954

Subba Rao, T. N.
See W. H. Arch, TB:73:Ia-4-823

Subramanya, Kanakatti
Spatially Varied Flow Over Side-Weirs, with Subhash Chandra Awasthy, HY1:Jan 72:1:8627
  Dsc: Praxitelis A. Argyropoulos, HY11:Nov 72: 2046:9305; Li Yu-Tek, HY11:Nov 72:2047: 9305; T. Nadesamoorthy and Alexander Thomson, HY12:Dec 72:2234:9391
  TR:138:84
Studies on Seepage from Canals with Partial Lining, with Madhira Radha Madhav and Govinda Chandra Mishra, HY12:Dec 73:2333:10197
See Arun J. Valsangkar, IR2:June 72:309:8995

Sud, Inder K.
Analysis of Satellite Air Terminal System, with Paul Gray, TE4:Nov 73:935:10174

Sudduth, Charles G.
Considering Social Value in Engineering Projects, PP1:Jan 72:43:8655
  Dsc: Charles D. Crosthwaite, PP4:Oct 72:729: 9224
  Clo: PP2:Apr 73:275:9638
  TR:138:96

Sueltenfuss, Melvin C.
Dsc, CE:June 72:50, on Environmental Litigation: Lessons From the Courts, CE:Jan 72:55

Sugio, Sutesaburo
Dsc, WW4:Nov 72:588:9310, of "Laboratory Study of Degradation and Aggradation", WW4:Nov 71: 615:8493

Suidan, Mubadda T.
Cumulative Fatigue Damage in Seismic Structures, with Robert A. Eubanks, ST5:May 73:923:9749
Fatigue Damage in Seismic Structures, TB:73:II-18-808
Finite Element Analysis of Reinforced Concrete, with William C. Schnobrich, ST10:Oct 73:2109:10081
Dsc, ST10:Oct 72:2324:9227, of "Fatigue Failure of Nonlinear Multistory Seismic Structure", ST3:Mar 72:655:8792

Sulaiman, Ibrahim H.
Dsc, SM4:Apr 72:441:8801, of "Heave and Lateral Movements Due to Pile Driving", SM11:Nov 71: 1513:8497

Sullivan, Richard A.
Behavior of Wharf Affected by River Fluctuations, SM9:Sept 72:939:9197
  TR:138:457
Planning for Driving Offshore Pipe Piles, with Clarence J. Ehlers, CO1:July 73:59:9844

Sumer, B. Mutlu
Simulation of Dispersion of Suspended Particles, HY10:Oct 73:1705:10056

Sumitomo, Hisashi
Dsc, with Shunsaku Yagi, EE1:Feb 73:92:9521, of "Hydraulic Control for Flow Distribution", SA2: Apr 72:275:8808

Summerhays, Richard S.
See Jack L. Schoustra, CE:Jan 73:58

Summers, David A.
Water Jet Cutting Related to Jet and Rock Properties, RM14:73:569

Sun, Chang-Kuei
Gravity Effect on Single-Degree Inelastic System, with Glen V. Berg and Robert D. Hanson, EM1: Feb 73:183:9565

Sundaram, T. R.
Environmental Effects of Power-Plant Thermal Discharges into Stratified Lakes, ISSF:Aug 72:683

Super, Arlin B.
See Theodore W. Weaver, IR3:Sept 73:387:9988

Surendranath, M. K.
Dsc, ST9:Sept 73:1955:9964, of "Cost Optimization of Welded Plate Girders", ST10:Oct 72:2235:9258

Suresh Rao, H.
Dsc, HY7:July 73:1178:9823, of "Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division", HY9:Sept 72:1647:9177
See M. H. Abdul Khader, EM2:Apr 72:447:8836
See M. H. Abdul Khader, HY6:June 72:1080:8925

Surry, David
See John Brian Roberts, EM6:Dec 73:1227:10248

Surya Rao, Singamsetti
Characteristics of Flow Weirs of Finite Crest Width, with Manoj Kumar Shukla, HY11:Nov 71:1807: 8515
  Dsc: K. G. Ranga Raju, S. J. Sahasrabudhe and Ihsan Ahmad, HY12:Dec 72:2224:9391; Edward H. Wilson, HY12:Dec 72:2226:9391; D. Chandrasekharan and Ramaswamy Sakthivadivel, HY12:Dec 72:2229:9391
  Clo: HY7:July 73:1149:9823
  TR:138:42

Sutherland, Alex J.
Diffusion Solution To Flows with Upstream Control, with Alistair G. Barnett, HY11:Nov 72:1969:9330
  Errata: HY9:Sept 73:1646:9961
  TR:138:537

Sutherland, R. J. M.
Structural Design of Masonry Buildings, State-of-Art Report 4, TB:73:III-27-1035

Sutherland, Reginald J.
Trends in Airport Planning, ASC73:Mar 73:193

Sutherland, Robert Alexander
Memoir of, TR:138:642

Sutterfield, G. Wayne
See F. E. Wisely, CE:Dec 72:30
See F. E. Wisely, Preprint No.2114, Oct 73

Sveum, Duane J.
Navigation Model Tests for Straight Reach of Missouri River, with Warren J. Mellema, WW2: May 72:191:8867
  TR:138:227

Swamee, Pramod K.
Optimization of Dead End Water Distribution Systems, with Virendra Kumar and P. Khanna, EE2:Apr 73:123:9650
  Dsc: Uri Shamir, EE5:Oct 73:759:10035

Swami, A. L.
Dsc, with A. K.M. Jilani, HY11:Nov 73:2152:10109, of "Damage to Karnafuli Dam Spillway", HY12: Dec 72:2155:9452

Swamidas, A. S. J.
Buckling of Continuous Circular Plates, with Vincent X. Kunukkasseril, EM4:Aug 73:835:9900

Swanberg, John Howard
Memoir of, TR:138:644

Swartz, Stuart E.
Experiments with Elastic Folded Plate Models, with Vernon H. Rosenbraugh, EM3:June 72:711:8992
  TR:138:325

Sweeten, John M.
See Robert M. Clark, SA6:Dec 72:897:9424

Swet, Charles J.
Curbside Service Subways, TE4:Nov 72:941:9331
  Errata: TE3:Aug 73:684:9896
  TR:138:469

Swiger, William F.
Construction of Deep Foundations, PES:73:III-207
Foundation Design, Theme Report, TB:73:Ia-11-849
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, SM5:May 72:481:8917
  Dsc: Narayan Nayak, SM12:Dec 72:1425:9394; George D. Roberts, SM1:Jan 73:144:9461; Kiichi Tanimoto and Marcis Kurzeme, SM4:Apr 73:353:9639; Robert F. Legget, SM7:July 73: 564:9825
  TR:138:302
Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, SM6:June 72:557:8944
  Dsc: James V. Hamel, SM12:Dec 72:1428:9394; Abdel-Aziz I. Kashef and Ray T. Whiteaker, SM12:Dec 72:1429:9394; Dale G. Wilder, SM1: Jan 73:148:9461; Carl Redel, SM4:Apr 73:355: 9639; John H. Schmertmann, SM6:June 73:477: 9762; Kyrre P. Nordmo, SM7:July 73:566:9825; Robert F. Legget, SM7:July 73:564:9825
  Errata: SM3:Mar 73:297:9582
  TR:138:309
"Subsurface Investigation for Design and Construction of Foundations of Buildings: Part III and IV," by the Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, SM7:July 72:749:9070
  Dsc: Carl Redel, SM4:Apr 73:355:9639; Mashesh D. Desai, SM5:May 73:410:9692; Robert F. Legget, SM7:July 73:564:9825
  TR:138:403
Subsurface Investigations for Design and Construction of Foundations of Buildings: Appendices A and B, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division, SM8:Aug 72:771:9103
  Dsc: Robert F. Legget, SM7:July 73:564:9825
  TR:138:413

Swisher, A. Dale
Dsc, CE:July 72:65, on People, Ecology and the Aswan High Dam, CE:Feb 72:37

Syal, Ishwar C.
Biaxially Loaded Beam-Column Analysis, with Satya S. Sharma, ST9:Sept 71:2245:8384
  Dsc: Sriralumu Vinnakota, Pentti Aysto and John C. Badoux, ST6:June 72:1334:8930
  Clo: ST1:Jan 73:205:9462
  TR:137:1015

Symonds, Edward
Oil for the East Coast -- What, Where and Why, Preprint No.2078, Oct 73

Symonds, Paul S.
Dsc, ST12:Dec 72:2822:9395, of "Optimum Fire Resistance of Structures", ST1:Jan 72:215:8638

Syrakov, Dimitar Enchev
Spectra of Thermally Stratified Turbulent Flows, ISSF:Aug 72:673

Szechowycz, Roman W
Sedimentation in Mangla Reservoir, with M. Mohsin Qureshi, HY9:Sept 73:1551:10033

Szuladzinski, Gregory
Dsc, ST11:Nov 73:2322:10113, of "Symmetry in Structural Mechanics", ST1:Jan 73:71:9475

Tadros, Gamil S.
Convergence of Semianalytical Solution of Plates, with Amin Ghali, EM5:Oct 73:1023:10054

Taechathummarak, Anan
See Edward W. Brand, PES:72:I-903

Tait, Richard G.
See Schaefer J. Dixon, Preprint No.1980, Apr 73
See Schaefer J. Dixon, PP3:July 73:393:9887

Takeda, Toshikazu
See Yoichi Higashi, TB:73:III-24-655

Takenò, M.
See Rimas Vaicaitis, ST3:Mar 73:453:9634
See Rimas Vaicaitis, Preprint No.1939, Apr 73

Talbott, John A.
See Ernest C. Harris, CE:July 72:49

Talesstchi, Ahmed
See Subhash C. Anand, ST3:Mar 73:301:9594

Tall, Lambert
See Negussie Tebedge, ST12:Dec 73:2439:10232

Tamanini, Flory J.
An Overview of Highway Research and Development, Preprint No.1988, Apr 73

Tamboli, Akbar R.
Optimization, TB:73:II-14-239
Soil-Structure Systems, TB:73:Ib-6-318

Tanaka, Masaru
Use of Irradiation in Plastic Wastes Disposal, with Tsuyoshi Mifune, SA3:June 72:561:8990
TR:138:414
Dsc, SA1:Feb 72:269:8682, of "Selecting Solid Waste Disposal Facilities", SA4:Aug 71:443:8280
Dsc, SA2:Apr 72:466:8800, of "Cost of Residential Solid Waste Collection", SA5:Oct 71:563:8403
Dsc, SA4:Aug 72:675:9077, of "Empirical Analysis of Commercial Solid Waste Generation", SA6:Dec 71:843:8589
Dsc, with Kach Boonyakachon, EE5:Oct 73:749:10035, of "Optimal Design of Wastewater Treatment Systems by Enumeration", SA6:Dec 72:833:9403

Tang, Jhy-Pyng
Expected Fatigue Damage of Seismic Structures, with James T.P. Yao, EM3:June 72:695:8986
TR:138:317
Fatigue Damage Factor in Structural Design, with James T.P. Yao, ST1:Jan 72:125:8647
TR:138:126

Tang, Man-Chung
Analysis of Cable-Stayed Girder Bridges, ST5:May 71:1481:8116
Dsc: Benjamin E. Lazar, ST10:Oct 71:2631:8411; John J. Jonatowski, ST3:Mar 72:770:8752
Errata: ST5:May 72:1191:8861
Clo: ST4:Apr 73:787:9640
TR:137:928
Design of Cable-Stayed Girder Bridges, ST8:Aug 72:1789:9151
Dsc: Benjamin E. Lazar, ST5:May 73:961:9693
Clo: ST7:July 73:1666:9826
TR:138:416

Tang, Sam
Nonlinear Analysis of Instability in Tension, EM5:Oct 71:1487:8428
Dsc: Franco Maceri, EM4:Aug 72:996:9125
TR:138:21

Tang, Wilson H.
Modeling, Analysis and Updating of Uncertainties, with Alfredo H.-S. Ang, Preprint No.2016, Apr 73

Tanimoto, Kiichi
Dsc, with Marcis Kurzeme, SM4:Apr 73:353:9639, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part I, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM5:May 72:481:8917

Tanner, Sidney H.
Hurricane Barrier Environmental Planning in Texas, with Edward J. Pullen, WW4:Nov 73:459:10171

Taoka, George T.
Dynamic Properties of Tall Shear-Wall Buildings, with Augustine S. Furumoto and Arthur N.L. Chiu, Preprint No.1934, Apr 73
See Arthur N.L. Chiu, ST9:Sept 73:1911:10012

Tarbox, Glenn S.
See Gerald F. Bowles, Preprint No.1878, Jan 73

Tarnoff, Philip J.
See Juri Raus, TE4:Nov 72:909:9313

Tavenas, Francois A.
Dsc, SM4:Apr 72:433:8801, of "Simplified Procedure for Evaluating Soil Liquefaction Potential", SM9:Sept 71:1249:8371

Tayfun, Mehmet Aziz
Monte Carlo Simulation of Oil Slick Movements, with Hsiang Wang, WW3:Aug 73:309:9930
Dsc, with Cheng Y. Yang, EM6:Dec 72:1606:9390, of "An Approach to Time-Varying Spectral Analysis", EM1:Feb 72:243:8733

Taylor, Brent D.
Temperature Effects in High-Transport, Flat-Bed Flows, with Vito A. Vanoni, HY12:Dec 72:2191:9456
TR:138:597
Temperature Effects in Low-Transport, Flat-Bed Flows, with Vito A. Vanoni, HY8:Aug 72:1427:9105
TR:138:412

Taylor, Catherine R.
Panama's Forgotten Designer: John Frank Stevens, PP4:Oct 73:465:10106

Taylor, E. E.F.
Steel Construction, State-of-Art Report 5B, TB:73:Ia-4-767
See W. H. Arch, TB:73:Ia-4-823

Taylor, Gary C.
Balancing Environmental and Developmental Values, Preprint No.1910, Jan 73

Taylor, Howard P.J.
Shear Strength of Large Beams, ST11:Nov 72:2473:9329
TR:138:533

Taylor, Peter W.
Dsc, ST6:June 72:1336:8930, of "Earthquake Design Formula Considering Local Soil Conditions", ST9: Sept 71:2383:8399

Taylor, Robert L.
Operation and Maintenance of Irrigation and Drainage Systems: Section III. - By the Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, IR3:Sept 73:237:10014

Taylor, William C.
Michigan Transportation in the Seventies, TE4:Nov 72:847:9350
TR:138:510

Tebedge, Negussie
Linear Stability Analysis of Beam-Columns, with Lambert Tall, ST12:Dec 73:2439:10232
Dsc, ST1:Jan 73:211:9462, of "Elastic Stability of Tapered I-Beams", ST3:Mar 72:713:8775
Dsc, ST7:July 73:1657:9826, of "Stiffness Analysis of Grids Including Warping", ST7:July 72:1511:9022
Dsc, ST11:Nov 73:2318:10113, of "Large Deflection Buckling of Space Frames", ST12:Dec 72:2701: 9455

Tedesko, Anton
The Gap Between Intent and Performance -- Why Shortchange the Client?, CE:Feb 73:40
Dsc: R. F. Lathlean, CE:June 73:26
Unusual Solutions, TB:73:Ia-4-807

Tedrow, Allan C.
See Chin-shu Liu, HY9:Sept 73:1369:10021

Teitgen, Fred C.
Engineer's Notebook: Effect Of Point Surcharge On Retaining Walls, with David R. Fiedler, CE:Nov 73:82

Tejchman, Andrzej F.
Model Investigations of Pile Groups in Sand, SM2: Feb 73:199:9579
Dsc: Kalankamary P. George, SM12:Dec 73:1172: 10184

Tellemer, John M.
Flood Control Developed and Operated with Simulation, PP1:Jan 72:55:8661
Errata: PP2:Apr 73:277:9638
TR:138:154

Tenney, Mark W.
See Wayne F. Echelberger, Jr., SA5:Oct 71:721:8472

Terenzio, Vincent G.
Dsc, with Martin Hauptman and LeRoy Ericson, SA5:Oct 72:789:9225, of "Systems Analysis of Water Distribution Networks", SA6:Dec 71:825: 8575

Tessier, M. J.
See S. M. Cho, HYB:Aug 73:141

Teter, Roger D.
See Norman A. Cyr, ST7:July 72:1585:9068

Tezcan, Semih S.
Earthquake Design Formula Considering Local Soil Conditions, ST9:Sept 71:2383:8399
Dsc: Melvin W. Jackson, ST2:Feb 72:541:8684; David A. Howells, ST4:Apr 72:944:8802; Peter W. Taylor, ST6:June 72:1336:8930; Ephraim Spira and Jacob Gluck, ST6:June 72:1339:8930
Clo: ST12:Dec 73:2479:10185
TR:138:15
Dsc, ST11:Nov 73:2327:10113, of "Large Displacement Analysis of Thin Plates", ST3:Mar 73:349:9593

Thailer, Henry J.
See Kiran M. Vashi, SDNPF:Dec 73:173

Thakkar, Manhar C.
Optimal Design of Prestressed Concrete Poles, with Bakul S. Bulsari, ST1:Jan 72:61:8632
Dsc: Madasamy Arockiasamy and S. Sridharan, ST1:Jan 73:206:9462
Errata: ST1:Jan 73:208:9462
TR:138:77

Tharp, T. M.
See Bezalel C. Haimson, RM14:73:748

Thau, Stephen
Dsc, with Martin A. Salmon, EM1:Feb 73:225:9522, of "Shear Waves in Plane Infinite Structures", EM1:Feb 72:85:8716

Theis, Thomas L.
See Philip C. Singer, SA5:Oct 72:784:9225

Theom, Robert L.
Dsc, EE5:Oct 73:750:10035, of "Basic Data for Solid Waste: A Pilot Study", SA6:Dec 72:897:9424

Thiel, Floyd I.
Beltway and Tax Base Impacts, UP1:Mar 73:105: 9619

Thill, Richard E.
Acoustic Methods for Monitoring Failure in Rock, RM14:73:649

Thirumalai, K.
A Study on a New Concept of Thermal Hard Rock Crushing, with J. B. Cheung, RM14:73:527

Thiruvengadachari, S.
Dsc, HY8:Aug 73:1277:9895, of "Boundary Effects on Stability of Structures", HY9:Sept 72:1557:9199

Thode, Edward F.
See E. I. Onstott, EE6:Dec 73:897:10196

Thom, Herbert C.S.
Distributions of Extreme Winds Over Oceans, WW1: Feb 73:1:9556
Extreme Wave Height Distributions Over Oceans, WW3:Aug 73:355:9939

Thoma, A. F.
Model Tests with Thin Sheets to Reduce Evaporation, IR2:June 73:117:9779

Thoma, Rudiger
Service Systems in Relation to Architecture, State-of-Art Report 1, TB:73:Ia-2-307

Thomack, Frederick P.
See James D. Gruendler, SU1:July 72:93:9053

Thomas, Anthony Rylands
Dsc, HY11:Nov 71:1915:8483, of "Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual", HY1:Jan 71:101:7786

Thomas, Clifford
See Richard Crenshaw, TB:73:Ia-4-797

Thomas, Howard P.
Dsc, PES:73:III-176, of "Settlement Due to Chemical Attack of Soils", PES:72:I-1087

Thomas, P. K.
Banquet Remarks at the Tall Buildings Conference, TB:73:C-519

Thomas, Zdenek
Dsc, HY8:Aug 73:1274:9895, of "Erosion of Sand Beds Around Spur Dikes", HY9:Sept 72:1587:9198

Thompson, David
See Gary Brierley, SM11:Nov 72:1273:9306

Thompson, Erik G.
In Situ Creep Analysis of Room in Frozen Soil, with Francis H. Sales, SM9:Sept 72:899:9202
Dsc: William E. Kelly, SM7:July 73:571:9825
TR:138:464

Thompson, Kenneth
See Alan F. Babb, HY7:July 73:1097:9859

Thompson, Major H., Jr.
Wallace Dam, PO2:Oct 72:333:9259
TR:138:550

Thompson, Marshall R.
Deep-Plow Lime Stabilization for Pavement Construction, TE2:May 72:311:8858
TR:138:107

Thompson, Morris M.
Water Features on Topographic Maps, SU1:July 72:1:9018
Dsc: Robert D. Turpin, SU1:Sept 73:135:9965
TR:138:175

Thompson, Tommie R.
See Robert Wm. Little, EM5:Oct 72:1239:9251

Thoms, Robert Lee
Finite Element Analysis of Rock-Salt Pillar Models, with Channagiri Vedavyasa Char and William Joseph Bergeron, RM14:73:393

Thomson, Alexander
See T. Nadesamoorthy, HY12:Dec 72:2234:9391

Thon, J. George
Systems Approach to Power Planning, HY4:Apr 73:589:9661

Thorn, Robert B.
Dsc, PP2:Apr 72:177:8857, of "Professional Recognition -- How?", PP2:Apr 72:169:8857

Thornton, Edward B.
Spectral Resolution of Breakwater Reflected Waves, with Ronald J. Calhoun, WW4:Nov 72:443:9318
TR:138:512

Thornton, Richard J.
Leachate Treatment By Coagulation and Precipitation, with Frederick C. Blanc, EE4:Aug 73:535:9946

Thornton, William A.
Dsc, with James W. Gorzynski, ST12:Dec 73:2502:10185, of "Dynamic Matrix of Timoshenko Beams Columns", ST3:Mar 73:527:9595

Thorpe, Geoffrey R.
See Thomas L. Shaw, PO1:Jan 71:159:7810
See Charles K. Haswell, PO2:Oct 72:201:9297

Thorpe, William G.
Dsc, CO2:Sept 72:363:9155, of "Changed Soil and Rock Conditions in Construction", CO2:Nov 71:257:8509

Thorson, Bruce M.
Dsc, SM11:Nov 73:1028:10112, of "Use of Cycloidal Arcs for Estimating Ditch Safety", SM2:Feb 73:165:9566

Thorson, Donald A.
Rapid Creek Watershed, HYB:Aug 73:449

Thurlimann, Bruno
Elastic Analysis-Strength of Members and Connections, Summary Report, TB:73:III-21-325

Tichenor, Bruce A.
Cooling Pond Temperature Versus Size and Water Loss, with Alden G. Christianson, PO3:July 71:589:8250
Dsc: George F. Bailey and John C. Sonnichsen, Jr., PO1:June 72:175:8927
Clo: PO1:May 73:9690
TR:137:1024

Tichy, Milik
See Fred Moses, TB:73:Ib-10-993

Tikhe, Madhav L.
Dsc, SA6:Dec 72:1044:9393, of "Disinfection of Algal Laden Waters", SA5:Oct 71:721:8472

Tillman, Donald C.
See Robert D. Bargman, EE6:Dec 73:939:10204

Timby, Elmer K.
Implementation, TB:73:C-DM-225
Dsc, PP2:Apr 73:166:9638, of "How Local Communities Can Meet Financial Obligations to Accomplish the National Environmental Goal", PP2:Apr 73:159:9663

Tiry, Robert F.
See J. W. Fortey, CE:May 72:44

Tischler, Lial F.
See Milton L. Holloway, Preprint No.1907, Jan 73

Toakley, A. Ray
See John F. Brotchie, UP1:Mar 73:25:9587

Toakley, Michael Raymond
Project Selection Based on Benefits and Costs, with John F. Brotchie, CO2:Sept 72:149:9163
TR:138:308

Tochacek, Miloslav
Design Concepts for Prestressed Steel Structures, TB:73:II-19-883
Economical Design of Prestressed Plate Girder, with Champa L. Mehta, ST6:June 72:1273:8973
Errata: ST4:Apr 73:795:9640
TR:138:298

Tocher, James L.
See Egor P. Popov, ST11:Nov 72:2626:9307

Toennies, Henry T.
New Mortars, Prefab Walls Transform Concrete Masonry, CE:July 73:46

Tokarz, Frank J.
Lateral-Torsion Buckling of Parabolic Arches, with Raghbir S. Sandhu, ST5:May 72:1161:8922
TR:138:280

Tokola, Alpo J.
Erecting the Center Span of the Fremont Bridge, CE:July 73:62

Tolunay, A. Zeki
See Donald H. Shields, SM12:Dec 73:1043:10221

Tomasetti, Richard L.
See Lev Zetlin, Preprint No.1914, Jan 73

Tomii, Masahide
Japanese Structural Standards for Reinforced Concrete Buildings, TB:73:III-20-125
Shear Walls, State-of-Art Report 4, TB:73:III-21-203

Tomonaga, Kazuo
Measured Errors on Fabrication of Kasumigaseki Building, State-of-Art Report 4, TB:73:Ib-9-833

Toprac, A. Anthony
See Hacik Erzurumlu, ST4:Apr 72:813:8823
See Peter W. Marshall, Preprint No.2008, Apr 73

Torrance, Andrew M.
Dsc, with George H. Caddie, HY5:May 72:960:8859, of "Sampling Procedures for Coarse Fluvial Sediments", HY8:Aug 71:1165:8279

Townsend, David R.
Design Criteria for Submarine Pipeline Crossings, with Donald W. Farley, Preprint No.1918, Jan 73
Design Criteria for Submarine Pipeline Crossings, with Donald W. Farley, HY10:Oct 73:1659:10070

Townsend, William H.
Inelastic Tests Of Repaired Concrete Connections, with Duane L.N. Lee and Robert D. Hanson, Preprint No.2010, Apr 73

Tozzoli, Anthony J.
Containerization and Its Impact on Port Development, WW3:Aug 72:333:9126
  Dsc: Frederick E. Camfield, WW2:May 73:290:9694
  Clo: WW4:Nov 73:498:10114
  TR:138:426
Water Used to Preload Unstable Subsoils, with Donald York, CE:Aug 73:56
  Errata: CE:Oct 73:28

Trahair, Nicholas S.
Buckling of Inelastic I-Beams Under Uniform Moment, with Sritawat Kitipornchai, ST11:Nov 72:2551:9339
  Dsc: Miklos Ivanyi, ST12:Dec 73:2492:10185
  TR:138:536
Effect of Major Axis Curvature on I-Beam Stability, with Scott T. Woolcock, EM1:Feb 73:85:9548
  Errata: EM6:Dec 73:1306:10181
See John M. Anderson, ST1:Jan 72:269:8646
See Sritawat Kitipornchai, ST3:Mar 72:713:8775
See Porpan Vacharajittiphan, ST5:May 73:821:9720
See Bruce R. Mutton, ST10:Oct 73:2167:10086

Treybig, Harvey J.
Effect of Load Placement on Rigid Pavement Behavior, with William Ronald Hudson and B. Frank McCullough, TE4:Nov 71:681:8543
  Dsc: Peter C. Oluonye, TE4:Nov 72:1074:9309
  Clo: TE2:May 73:423:9691
  TR:138:6

Triandafilidis, George E.
See Dale E. Stephenson, Preprint No.2004, Apr 73

Tribus, Myron
Integrity and the Ecological Crisis, PP1:Jan 72:25:8677
  Dsc: Raphael G. Kazmann, PP4:Oct 72:732:9224; Charles D. Crosthwaite, PP4:Oct 72:729:9224
  TR:138:227

Tripp, James G.
Memoir of, TR:138:645

Troitsky, Michael S.
Bending and Torsion in Orthotropic Deck Box Girder, with Abdul K. Azad, ST9:Sept 72:1987:9168
  TR:138:427
See Benjamin E. Lazar, ST8:Aug 72:1725:9122

Trott, William J.
Optimization of Multiple Reservoir System, with William W-G Yeh, HY10:Oct 73:1865:10065

Troxell, Roger D.
See Harry M. Montgomery, CE:May 72:73

Truong, Quan-Si
See David F. James, EM6:Dec 72:1573:9416

Tsai, Frank Y.
Dsc, HY12:Dec 71:2108:8552, of "Efficiency of Hydraulic Jump", HY3:Mar 71:409:7994

Tsai, Nien-Chien
Spectrum-Compatible Motions for Design Purposes, EM2:Apr 72:345:8807
  TR:138:184
Dsc, PO2:Nov 73:434:10111, of "Interaction of Soil and Power Plants in Earthquakes", PO2:Oct 72:273:9242

Tschetter, Robert A.
Overview of the Health Care Services Industry, PP4:Oct 72:655:9283
  TR:138:591

Tseng, Wu-Hsiung
See Franklin Y. Cheng, ST3:Mar 73:527:9595

Tso, Wai K.
General Analysis of Nonplanar Coupled Shear Walls, with Jayanta K. Biswas, ST3:Mar 73:365:9604
  Dsc: Riko Rosman, ST12:Dec 73:2505:10185

Tsou, C. Anthony
Search Technique for Project Sequencing, with Loring G. Mitten and Samuel O. Russell, HY5:May 73:833:9732

Tucker, Richard
Civil Engineering Education in the Future, PP1:Jan 72:97:8664
  TR:138:191
See Robert Davis, TN: SU1:Sept 73:149:10017

Tugcu, Nejat
Influence of Edge Cables on Cable Network Behavior, TN: ST9:Sept 73:1970:9968

Tulin, Leonard G.
See George S. McClure, Jr., ST2:Feb 73:243:9564

Tullis, J. Paul
Cavitation and Size Scale Effects for Orifices, with Rangachari Govindarajan, HY3:Mar 73:417:9605
Cavitation Scale Effects for Valves, HY7:July 73:1109:9874
Choking and Supercavitating Valves, HY12:Dec 71:1931:8593
  Dsc: Norio Hayakawa and John F. Ripken, HY9:Sept 72:1728:9156
  Clo: HY3:Mar 73:532:9580
  TR:138:69
See James W. Ball, HY9:Sept 73:1303:9993

Tung, Chi C.
Statistical Properties of Wave-Current Force, with Norden E. Huang, WW3:Aug 73:341:9931

Turkstra, Carl J.
Assessing and Reporting Uncertainties, State-of-Art Report 1, with Haresh C. Shah, TB:73:Ib-10-919
See Adel Fam, ST5:May 72:1212:8861
See Adel Fam, ST10:Oct 72:2320:9227

Turnbull, Willard J.
Compaction of Hydraulically Placed Fills, with Charles I. Mansur, SM11:Nov 73:939:10170

Turner, A. Keith
See Graham A. Jobling, IR4:Dec 73:493:10195

Turner, Andrew A.
See Edward H. Wilson, HY7:July 72:1127:9007

Turner, Darrell J.
Will OSHA Make The Construction Industry Safer, CE:Feb 72:58
  TR:138:89
Dsc, CE:June 73:22, on Our Priceless Heritage, Our Youth, CE:Mar 73:76

Turner, Francis C.
Six Join Ranks Of ASCE Honorary Members, CE:Oct 73:89

Turner, R. W.
See R. W.F. Harris, TB:73:III-24-711

Turner, Thomas M.
Ecological Benefits of Hydraulic Dredging, Preprint No.1874, Jan 73

Turpin, Robert D.
Dsc, SU1:Sept 73:135:9965, of "Water Features on Topographic Maps", SU1:July 72:1:9018

Tuttle, Steve
Federal Funds Available to Sections for Minority Programs, CE:Feb 73:66

Twigge-Molecey, C. F.M.
Aerodynamic Forces on a Triangular Cylinder, with W. Douglas Baines, EM4:Aug 73:803:9904

Tyagi, Karmvir S.
Dsc, SM4:Apr 73:351:9639, of "In Situ Shear Wave Velocity by Cross-Hole Method", SM5:May 72:443:8904

Tyler, David A.
See Robert B. McEwen, SU2:Nov 72:201:9383

Tynes, Rex A.
Engineering Registration - Today and Tomorrow, PP4:Oct 73:457:10079
Dsc, CE:Mar 73:89, on Specialty Registration for Engineers, CE:Dec 72:32

Tyson, Christopher G.
Dsc, CE:Sept 72:65, on Badly Needed: Changes in Building Codes for Houses, CE:Apr 72:55

Tywoniuk, Nick
Sediment Discharge Computation Procedures, HY3:Mar 72:521:8783
  TR:138:213

Uchida, Yoshichita
See Kiyoo Matsushita, TB:73:Ia-12-1067

Uddin, Tasnim
See Charles G. Culver, ST3:Mar 73:417:9620

Ullrich, C. Robert
See D. Joseph Hagerty, RM14:73:127

Unny, Tharakkal Eroman
See Nicholas Kouwen, HY5:May 73:713:9723
See Gunaratnam Balachandran, TN: EM4:Aug 73:912:9898

Ural, Oktay
Mutual Benefits of Housing and Mass Transit, with J. Larry Josey, PP1:Jan 73:91:9502

Uthenwoldt, Gary
See Anthony N. Palazotto, Preprint No.2030, Apr 73

Uzan, Jacob
Cracking Mechanism of Flexible Pavements, with Moshe Livneh and Elisha Shklarsky, TE1:Feb 72:17:8695
  Errata: TE2:May 73:424:9691
  TR:138:16

Uzuner, Mehmet S.
Stability of Floating Ice Blocks, with John F. Kennedy, HY12:Dec 72:2117:9418
  Dsc: George D. Ashton, HY11:Nov 73:2142:10109
  TR:138:571

Vacharajittiphan, Porpan
Elastic Lateral Buckling of Portal Frames, with Nicholas S. Trahair, ST5:May 73:821:9720

Vafai, Abolhassan
Torsional and Bending Behavior of Wood Beams, with George Pincus, ST6:June 73:1205:9788

Vagneron, Jean-Marie J.
See Kenneth L. Lee, SM10:Oct 73:745:10068

Vaicaitis, Rimas
Parametric Study of Wind Loading on Structures, with Masanobu Shinozuka and M. Takeno, ST3:Mar 73:453:9634
Response of Tall Buildings to Wind Loading, with Masanobu Shinozuka and M. Takeno, Preprint No.1939, Apr 73

Vaid, Y. P.
Dsc, with Richard E. Campanella, SM5:May 72:508:8860, of "Consolidation at Constant Rate of Strain", SM10:Oct 71:1393:8447

Vaidyaraman, Pazhayannur P.
Dsc, with Ganakaloty Puttaramaiah, HY7:July 73:1160:9823, of "Repeatability in Estuarine Hydraulic Model", HY4:Apr 72:631:8832

Valentin, Franz
Dsc, HY7:July 73:1170, of "Boundary Layer Effects on Hydraulic Jump Location", HY7:July 72:1127:9007

Valentine, Vernon E.
See Myron B. Holburt, HY3:Mar 72:503:8769

Vallee, Robert P.
Dsc, with Orlando B. Andersland, SM8:Aug 73:642:9892, of "Coefficient of Secondary Compression", SM1:Jan 73:123:9515

Vallerga, Bernard A.
Modern Pavement Evaluation Techniques, with Robert G. Lee, ASC73:Mar 73:63

Valliappan, Somasundaram
Nonlinear Stress Analysis of Reinforced Concrete, with T. F. Doolan, ST4:Apr 72:885:8845
  Dsc: William C. Schnobrich, Mohammad H. Salem, David A. Pecknold and Bijan Mohraz, ST10:Oct 72:2327:9227; R. S. Lamb and G. Davies, ST3:Mar 73:583:9583; A. Rajaraman, ST5:May 73:952:9693
  Clo: ST12:Dec 73:2484:10185
  TR:138:218

Valsangkar, Arun J.
Drainage in Soils with Initial Gradient, with Kanakatti Subramanya, IR2:June 72:309:8995
  TR:138:383

Vanchagov, O. M.
See G. D. Khaskhachikh, WW4:Nov 71:735:8547

Van Dalen, Karl
See Sanivarapu V. Narasimham, ST7:July 73:1653:9826

van den Heuvel, J.
See Thomas L. Shaw, CE:Dec 72:40

Vandenvelde, Charles E.
See Hans Gesund, TB:73:III-22-455

Van der Beken, Andre
See Jean Berlamont, HY9:Sept 73:1531:10004

Vanderbilt, M. Daniel
Service and Overload Behavior of Wood Joist Floor Systems, with James R. Goodman, Preprint No.1953, Apr 73
Shear Strength of Continuous Plates, ST5:May 72:961:8876
  Dsc: Sateesh J. Nabar and Hans Gesund, ST5:May 73:953:9693; Saigid Tauquir Haider Zaidi, ST12:Dec 73:2485:10185
  TR:138:237

Vanderplaats, Garret N.
Automated Design of Trusses for Optimum Geometry, with Fred Moses, ST3:Mar 72:671:8795
Dsc: James W. Chai, ST9:Sept 72:2133:9159
Clo: ST3:Mar 73:581:9583
TR:138:202

Vandersypen, Hugo L.
See Edward K. Morlok, TE3:Aug 73:627:9922

van der Veen, Cornelius
See E. Horvat, TB:73:Ia-11-905

van Douwen, A. A.
Fatigue and Fracture, Theme Report, TB:73:II-18-721

Van Dyke, Henry C.
See Jason C. Yu, TE3:Aug 73:467:9932

VanHorn, David A.
See Miguel Angel Macias-Rendon, ST9:Sept 73:1805:9998

Van Koten, H.
Research Review -- Europe and Africa, State-of-Art Report 2, TB:73:Ib-7-375

Vanmarcke, Erik H.
Properties of Spectral Moments with Applications to Random, EM2:Apr 72:425:8822
TR:138:211
See Ross B. Corotis, EM2:Apr 72:401:8816
See John W. Reed, TB:73:II-17-687
See Robert J. Hansen, ST7:July 73:1589:9868

Vanoni, Vito A.
Chapter III. Sediment Measurement Techniques: Reservoir Deposits, Task Committee on Preparation of Sedimentation Manual, HY12:Dec 70:2417:7781
Dsc: Banavar Murthy, HY6:June 71:877:8155; J. Roger McHenry, HY8:Aug 71:1253:8267; Herman G. Heinemann and David L. Rausch, HY9:Sept 71:1555:8345
Clo: HY1:Jan 73:261:9459
TR:137:852
Chapter V: Sediment Control Methods: C. Control of Sediment in Canals, By the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation of the Hydraulics Division, HY9:Sept 72:1647:9177
Dsc: Mushtaq Ahmad, HY7:July 73:1176:9823; H. Suresh Rao, HY7:July 73:1178:9823; Iqbal Ali, HY7:July 73:1180:9823; Victor Sardi and Celetino Martinez de la Plaza, HY7:July 73:1182:9823
TR:138:455
Sedimentation Transportation Mechanics: G. Fundamentals of Sediment Transportation, Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, HY12:Dec 71:1979:8591
Dsc: Mohammad Akram Gill, HY10:Oct 72:1880:9222
Clo: HY4:Apr 73:682:9637
TR:138:64
Sediment Control Methods: B. Stream Channels, by the Task Committee on Preparation of Sedimentation Manual, Committee on Sedimentation, HY7:July 72:1295:9071
TR:138:391
Sediment Control Methods: D. Reservoirs, by the Task Committee for Preparation of Manual on Sedimentation of the Committee on Sedimentation of the Hydraulics Division, HY4:Apr 73:617:9671
Sediment Transportation Mechanics: F. Hydraulics Relations for Alluvial Streams, Task Committee for Preparation of Sedimentation Manual, HY1:Jan 71:101:7786
Dsc: David Squaree, HY10:Oct 71:1775:8407; M. Gamal Mostafa and Ramsay M. McDermid, HY10:Oct 71:1777:8407; Thomas Maddock, Jr., HY11:Nov 71:1904:8483; Thomas Blench, HY11:Nov 71:1908:8483; John J. Franco, HY11:Nov 71:1913:8483; Anthony Rylands Thomas, HY11:Nov 71:1915:8483; Arved J. Raudkivi, HY12:Dec 71:2089:8552
Clo: HY6:June 73:977:9760
TR:137:856
See Brent D. Taylor, HY8:Aug 72:1427:9105
See Brent D. Taylor, HY12:Dec 72:2191:9456

Van Riper, Donald
Esthetics in Highway Design, CE:Apr 72:47
Dsc: Miguel P. Dengo, CE:Aug 72:46
TR:138:177

Vansant, Robert E.
Dsc, IR1:Mar 73:115:9581, of "General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division", IR2:June 72:317:8996

Varga, Istvan S.
See Matthys P. Levy, ST5:May 72:975:8894

Varghese, P. C.
Dsc, with C. Ganapathy Chettiar, ST7:July 73:1663:9826, of ""Bibliography on Latticed Structures," by the Subcommittee on Latticed Structures of the Task Committee on Special Structures of the Committee on Metals of the Structural Division", ST7:July 72:1545:9055

Varshney, D. V.
See H. D. Sharma, HY2:Feb 73:375:9523
See H. D. Sharma, HY4:Apr 73:684:9637

Vashi, Kiran M.
Determination of Location and Orientation of Pipe Breaks in the Westinghouse Primary Coolant Loop, with Donald F. Miller and Henry J. Thailer, SDNPF:Dec 73:173

Vasiliev, A. P.
Prefabricated Reinforced Concrete Multi-Story Frame Buildings in the U.S.S.R., State-of-Art Report 5, with Yu D. Bychenkov and N. G. Matov, TB:73:Ia-3-489

Vasiliev, O. F.
Development of the Turbulized Fluid Region in Stratified Medium, with B. G. Kuznetsov, Y. M. Lytkin and G. G. Chernykh, ISSF:Aug 72:161

Vaziri, Cyrus M.
Furrow Irrigation Criteria for Hawaiian Sugarcane, with Harlan G. Collins and William N. Reynolds, IR1:Mar 73:1:9622

Velebit, Milan
See Ted Belytschko, EM1:Feb 72:227:8724

Veletsos, Anestis S.
Free In-Plane Vibration of Circular Arches, with Walter J. Austin, Carlos A. Lopes Pereia and Shyr-Jen Wung, EM2:Apr 72:311:8806
TR:138:176
See Jethro W. Meek, EM2:Apr 72:367:8824
See Walter J. Austin, EM4:Aug 73:735:9913

Vellozzi, Joseph
Dsc, ST11:Nov 73:2332:10113, of "Gust Factors and Alongwind Pressure Correlations", ST4:Apr 73:773:9686

Venancio-Filho, Fernando
Frame Vibrations by Consistent Mass Matrix, with Fernando Iguti, TN: ST9:Sept 73:1965:9968

- Dsc, with Fernando Iguti, ST7:July 73:1660:9826, of "Stiffness Analysis of Grids Including Warping", ST7:July 72:1511:9022

Veneziano, Daniele
- See Carlo Gavarini, ST1:Jan 73:219:9462

Venkataramaiah, Kothapalli Ramaiah
- Dsc, ST6:June 72:1332:8930, of "Alternative Approach to Light-Gage Beam Design", ST8:Aug 71:2119:8327

Venkateswarlu, Bandaru
- Cracking and Bond Slip in Concrete Beams, with Hans Gesund, ST12:Dec 72:2663:9423
  - Dsc: Syed I. Husain and Phil M. Ferguson, ST12: Dec 73:2495:10185
  - TR:138:578

Verghese Chummar, A.
- Bearing Capacity Theory From Experimental Results, SM12:Dec 72:1311:9411
  - Dsc: Joseph E. Bowles, SM6:June 73:478:9762; Aleksandar Sedmak Vesic, SM7:July 73:575: 9825
  - TR:138:561

VerNooy, B.
- The Development of an Instrument Pig, Preprint No.2045, July 73

Veronda, Daniel R.
- Stability of Hyperboloidal Shells, with Victor I. Weingarten, Preprint No.2112, Oct 73

Vesic, Aleksandar Sedmak
- Analysis of Ultimate Loads of Shallow Foundations, SM1:Jan 73:45:9480
  - Dsc: James Graham, SM10:Oct 73:10038; C. Vogel and A. Baracos, SM11:Nov 73:1016: 10112; Icarahy da Silveira, SM11:Nov 73:1019: 10112
- Breakout Resistance of Objects Embedded in Ocean Bottom, SM9:Sept 71:1183:8372
  - Dsc: Wallace Estill Wilson, SM2:Feb 72:240:8683
  - TR:138:19
- Expansion of Cavities in Infinite Soil Mass, SM3:Mar 72:265:8790
  - Dsc: Kent A. Healy and Clarence W. Welti, SM11:Nov 72:1275:9306
  - Clo: SM5:May 73:409:9692
  - TR:138:217
- Dsc, SM7:July 73:575:9825, of "Bearing Capacity Theory From Experimental Results", SM12:Dec 72:1311:9411

Vesilind, P. Aarne
- Dsc, EE5:Oct 73:754:10035, of "Economic Aspects of Sludge Dewatering and Disposal", EE1:Feb 73: 55:9537

Vetter, Jack W.
- Buckling of Arbitrary Open Cylindrical Shells, with Donald E. Boyd, EM1:Feb 72:177:8726
  - Dsc: Kuang-Han Chu, EM5:Oct 72:1313:9221
  - Clo: EM3:June 73:598:9759
  - TR:138:115

Vey, Eben
- See David A. Novick, CE:Jan 72:45

Vicens, Guillermo
- See John C. Schaake, Jr., IR3:Sept 73:409:9962

Vickery, Barry J.
- Drag or Along-Wind Response of Slender Structures, with Kwan H. Kao, ST1:Jan 72:21:8635
  - TR:138:86
- Lift or Across-Wind Response to Tapered Stacks, with Arthur W. Clark, ST1:Jan 72:1:8634
  - TR:138:85

Viest, Ivan M.
- Theme Report: Committee on Tall Building Research, with Wai F. Chen, TB:73:C-AC11-53
- See W. C. Hansell, TB:73:II-19-899
- 1974 ASCE Officers Installed In New York, CE:Oct 73:88

Vijay, Singh
- See Santosh K. Mahajan, SU1:July 72:73:9056

Vijayvergiya, Vasant N.
- Dsc, SM12:Dec 72:1418:9394, of "Behavior of Bored Piles in Beaumont Clay", SM2:Feb 72:195:8741

Villemonte, James R.
- Some Basic Concepts on Flow in Branching Conduits (Abstract), HYB:Aug 73:203

Vincent G. Kling and Partners
- Brandywine Building, TB:73:C-P-386
- Central Penn National Bank, TB:73:C-P-362
- Centre Square, TB:73:C-P-390
- Fidelity Mutual Life, TB:73:C-P-368
- Municipal Services Building, TB:73:C-P-456
- Penn Center, TB:73:C-P-380
- Stock Exchange Building, TB:73:C-P-372
- Transportation Center, TB:73:C-P-452

Viner, John G.
- Recent Developments in Roadside Crash Cushions, TE1:Feb 72:71:8747
  - TR:138:99

Vinnakota, Sriramulu
- Elastic-Plastic Instability of Multi-Story Frames, TB: 73:II-16-568
- Dsc, with Pentti Aysto and John C. Badoux, ST6: June 72:1334:8930, of "Biaxially Loaded Beam-Column Analysis", ST9:Sept 71:2245:8384

Vinson, Ted S.
- Polyurethane Foamed Plastics in Soil Grouting, with James K. Mitchell, SM6:June 72:579:8947
  - TR:138:321

Viraraghavan, Thiruvenkatachari
- Dsc, SA5:Oct 72:798:9225, of "Hydraulically Ventilated Underground Filter", SA6:Dec 71:851: 8596
- Dsc, SA5:Oct 72:801:9225, of "Bacterial Dieoff in Ponds", SA1:Feb 72:59:8714
- Dsc, SA6:Dec 72:1058:9393, of "Oxygen Depletion in Ice Covered River", SA2:Apr 72:341:8841
- Dsc, EE1:Feb 73:94:9521, of "Clean Water -- An Environmental Challenge", SA2:Apr 72:375:8812
- Dsc, EE2:Apr 73:158:9635, of "Research Needs for Advanced Waste Treatment", SA3:June 72:515: 8956
- Dsc, EE4:Aug 73:562:9893, of "Professional Papers in Sanitary Engineering, By the Committee on Publications of the Sanitary Engineering Division", SA5:Oct 72:707:9237
- Dsc, EE5:Oct 73:753:10035, of "Stochastic Population Projection at Design Level", SA6:Dec 72:883:9436

Virmani, J. K.
- Discharge, Slope, Bed Element Relations in Streams, with Dean F. Peterson and Gary Z. Watters, HYB: Aug 73:73

Visweswara Rao, J.
- See B. S. Rama Rao, HY9:Sept 73:1515:10001

Vives, A.
- See A. Sandoval, TB:73:C-P-472

Vizcaino, Aurelio Bemassini
- Dsc, with Vicente Casales Lattuada, PES:73:III-135, of "Piping in Earth Dams of Dispersive Clay", PES:72:I-589
- Dsc, with Vicente Casales Lattuada, PES:73:III-135, of "Hydraulic Fracturing in Low Dams of Dispersive Clay", PES:72:I-653

Vlachos, Evan
Water and Society: Social Constraints and Resource Limitations, Preprint No.1904, Jan 73

Vogel, C.
Dsc, with A. Baracos, SM11:Nov 73:1016:10112, of "Analysis of Ultimate Loads of Shallow Foundations", SM1:Jan 73:45:9480

Voice, Ralph E., Jr.
Quality Assurance, EPMT:73:59

Volkman, Robert C.
Remote Terminal Cost Estimating, with LeRoy T. Boyer, CO1:Mar 72:1:8756
TR:138:133

Volpe, John A.
Volpe Receives Washington Award, CE:Mar 73:60

von Oettingen, Sergius
See W. O. Pruitt, IR2:June 72:177:8941

von Seggern, Otto C.
Dsc, PP4:Oct 72:735:9224, of "Action in Public Affairs -- A Way of Life", PP2:Apr 72:181:8797
Dsc, PP4:Oct 72:735:9224, of "Professional Liability Insurance", PP2:Apr 72:213:8820

Vos, Robert G.
Generalization of Plate Finite Elements to Shells, EM2:Apr 72:385:8828
TR:138:223
Dsc, ST5:May 73:960:9693, of "Finite Element Thermoelastoplastic Analysis", ST7:July 72:1585:9068

Vreugdenhil, C. B.
Dsc, with A. H. De Vries, HY9:Sept 72:1723:9156, of "Cavitation in Horizontal Pipelines Due to Water Hammer", HY10:Oct 71:1585:8440

Vu, Truong Tri
See Andre Leclerc, SA6:Dec 72:937:9401
See Andre Leclerc, SA6:Dec 72:1046:9393

Vuchic, Vukan R.
"Quo Vadis, ASCE?", CE:June 73:59
Dsc: Carl H. Zweben, CE:Sept 73:29; Robert G. Brown, CE:Sept 73:31; Henry F. Ball, Jr., CE: Sept 73:31; Allen B. Radcliffe, Jr., CE:Sept 73: 32; Dennis R. Neuzil, CE:Oct 73:34; William W. Stelle, CE:Oct 73:34

Vyas, Shyam K.
See Tien H. Wu, SM4:Apr 73:323:9687

Waas, Gunter
See John Lysmer, EM1:Feb 72:85:8716

Wachs, Martin
Public Transit and Job Access in Chicago, with Joseph L. Schofer, TE2:May 72:351:8888
TR:138:170
See G. Scott Rutherford, UP2:Sept 73:157:9985

Wada, Akira
Study of Thermal Diffusion in a Two Layer Sea Caused by Outfall of Cooling Water, ISSF:Aug 72:451

Waddell, G. G.
See E. H. Skinner, RM14:73:754

Waddick, Robert K.
Specifications for Computer Software, with Charles F. Beck, Preprint No.2022, Apr 73

Wadlin, George K., Jr.
Profile of ASCE Membership, CE:Jan 72:39
TR:138:5
A Profile of ASCE Membership, PP2:Apr 72:195:8843
TR:138:312

Wagner, Fred P., Jr.
Bridge Beam Response to Simulated Traffic, with Kishor C. Mehta, Preprint No.1964, Apr 73
Dsc, TE3:Aug 73:682:9896, of "Four-Day Week and Transportation", TE3:Aug 72:705:9116

Wagner, Ralph
Dsc, EE1:Feb 73:97:9521, of "Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division", SA2:Apr 72:299:8833

Wahanik, Rudolf J.
Circulating Water Systems Without Valves, PO2:Oct 72:187:9264
TR:138:571

Wahi, Pran N.
Management Science and Gaming in Waste Management, with Theodore I. Peterson, SA5:Oct 72:693:9253
TR:138:476

Wahl, Howard W.
Engineering Innovations for Davis-Besse Containment, PO1:May 73:125:9697

Wahl, Lucien
See Gaylord R. Claiborne, TB:73:Ib-8-541

Wahler, William A.
Earthquake Research Applied to Slope Stability, CO1:July 73:1:9837

Wahls, Harvey E.
See William F. Marcuson, III, SM12:Dec 72:1359:9442

Wainwright, Peter J.
See Lawrence H. Martin, ST11:Nov 73:2229:10129

Waite, Thomas D.
Role Of Benthic Plants in Fertilized Estuary, with Ralph Mitchell, SA5:Oct 72:763:9293
TR:138:482

Wakabayashi, Minoru
Elasto-Plastic Behavior of Encased Structures, with Takeo Naka and Ben Kato, TB:73:II-16-525
Frames Under Strong Impulsive, Wind or Seismic Loading, State-of-Art Report 6, TB:73:II-15-343

Wakhlu, Omkar N.
Dsc, HY1:Jan 73:274:9459, of "Obtaining Overland Flow Resistance by Optimization", HY3:Mar 72:429:8773

Walesh, Stuart G.
Bottom Withdrawal of Viscous Stratified Fluid, with Peter L. Monkmeyer, HY9:Sept 73:1401:10018
Floodland Management: The Environmental Corridor Concept, HYB:Aug 73:105
Simulation in Watershed Planning, HY9:Sept 73:1383:10020

Walker, Alastair C.
See Ralph G. Dawson, ST1:Jan 72:75:8630

Walker, Clarence O.
Task Committee Report on Geological Conditions Affecting Pipeline Location, Preprint No.2036, July 73

Walker, Fred C.
Treatment of High Embankment Dam Foundations, with R. W. Bock, SM10:Oct 72:1099:9272
TR:138:491

Walker, Leland J.
Social Problems: A Concern for Civil Engineers, PP1: Jan 73:53:9494

Walker, R. E.
See J. P. Balsara, Preprint No.2019, Apr 73

Walker, William R.
State Water Rights Laws, Preprint No.1908, Jan 73
State Water Rights Laws, IR4:Dec 73:449:10217
The Subsurface Environment: Private Property or Public Domain, with William E. Cox, Preprint No.2102, Oct 73
Dsc, IR2:June 73:195:9761, of "General Statement of Principles to be Included in State Water Rights Laws, Committee on Water Laws of the Irrigation and Drainage Division", IR2:June 72:317:8996

Walker, Wynn R.
See Gaylord V. Skogerboe, IR4:Dec 72:569:9438
See Gaylord V. Skogerboe, Preprint No.1880, Jan 73
See Gaylord V. Skogerboe, HY6:June 73:921:9799

Wall, John F.
Federal Reorganization to Protect the Environment, with Leonard B. Dworsky, PP2:Apr 72:227:8829
TR:138:289

Wallace, B. J.
Foundation Practices for Talbingo Dam, Australia, with J. I. Hilton, SM10:Oct 72:1081:9273
TR:138:492

Wallen, Martin A.
Bunker Hill-Los Angeles Parking and People Mover Program, Preprint No.2090, Oct 73

Wallis, Craig
See Mark D. Sobsey, EE3:June 73:245:9778

Walser, Adolf
See German R. Gurfinkel, PO1:June 72:133:8997
See C. N. Krishnaswamy, ST7:July 73:1664:9826

Walsh, Peter
See John B. Herbich, HY9:Sept 72:1691:9216

Walsh, Stephen
Least Cost Method for Sewer Design, with Linfield C. Brown, EE3:June 73:333:9796

Wambach, William T., Jr.
Where, Oh Where, Is Your Right-Of-Way Line? CE:Mar 73:52
Dsc: William G.G. Blakney, CE:July 73:22

Wang, Cheng W.
Dsc, TE3:Aug 73:679:9896, of "Computer Simulation of Waterhammer Effects", TE3:Aug 72:521:9104

Wang, Chung-su
Analysis of Vibration of Hollow-Cone Valves, EM6:Dec 73:1147:10215

Wang, Hsiang
See Mehmet Aziz Tayfun, WW3:Aug 73:309:9930

Wang, Kuang K.
See Calvin P.C. Poon, EE4:Aug 73:489:9944

Wang, Leon Ru-Liang
Dsc, with Lap-Yan Chu, ST5:May 72:1202:8861, of "Behavior of Fiber Glass Reinforced Concrete Beams", ST9:Sept 71:2203:8353

Wang, Neng-Ming
Large Deflection of Shallow Paraboloid Shells, with Hilario L. Oh and Kuo-Kuang Chen, EM4:Aug 73:867:9929

Wang, Sue K.
Advanced Analysis of Rigid Pavements, with Michel A. Sargious and Yau Kai Cheung, TE1:Feb 72:37:8699
Dsc: Yang H. Huang, TE1:Feb 73:185:9526
Clo: TE3:Aug 73:677:9896
TR:138:36
Effect of Openings on Stresses in Rigid Pavements, with Michel A. Sargious and Yau Kai Cheung, TE2:May 73:255:9721

Wang, Tung-Ming
Tapered Cantilevers with Varying Distributed Loads, with Chun-Hsiung Lee, TN: EM4:Aug 73:919:9898

Wang, Wen L.
Low Velocity Projectile Penetration, SM12:Dec 71:1635:8592
Dsc: James A. Cheney, SM9:Sept 72:974:9158
TR:138:104

Wany, Y. H.
See F. K. Browand, ISSF:Aug 72:493

Ward, Dan S.
See George O.G. Lof, CE:Sept 73:88

Ward, Joseph S.
ASCE's Involvement in Pension Concepts, CE:Sept 73:93

Ward, Peter R.B.
Measurement of Dye Concentrations by Photography, EE3:June 73:165:9768
Prediction of Mixing Lengths for River Flow Gaging, HY7:July 73:1069:9856

Ward, William H.
Performance of Braced Excavations in London Clay, PES:73:III-257

Wardle, David G.
See Roy E. Coxon, HY2:Feb 73:301:9562

Ware, Kenneth
Tieback Wall Construction - Results and Controls, with Melvin M. Mirsky and William E. Leuniz, SM12:Dec 73:1135:10239

Waring, David M.
See Theodore G. Biehl, CE:Sept 72:62

Warner, Dennis
The Challenge to Civil Engineering, CE:July 72:66
Dsc: Dennis C. Cook, CE:Oct 72:63
TR:138:339

Warner, James
Strength Properties of Chemically Solidified Soils, SM11:Nov 72:1163:9332
Dsc: Bruce A. Lamberton, SM8:Aug 73:637:9892; D. W. Fawcett, SM8:Aug 73:638:9892; A. L. Ruiz and John P. Gnaedinger, SM10:Oct 73:889:10038; Claude Caron, SM10:Oct 73:891:10038
TR:138:503
See Douglas R. Brown, SM8:Aug 73:589:9908

Warner, Marvin E.
See William D. Alexander, CE:Oct 72:77

Warner, Robert F.
Dsc, ST9:Sept 72:2124:9159, of "Slender Concrete Columns Under Sustained Load", ST11:Nov 71:2729:8544

Warnes, Cloyd E.
Structural Design of Concrete Pavement by Computer, TE1:Feb 72:1:8698
TR:138:25
See E. Guy Robbins, TE1:Feb 73:17:9555

Warnock, Richard G.
Dsc, with Tagadur P. Halappa Gowda, HY12:Dec 72:2231:9391, of "Dispersion in Natural Streams", HY11:Nov 71:1867:8540

Warren, Frederick H.
Environmental Impact on Project Schedules, PP3:July 73:299:9877

Warszawski, Abraham
Analysis of Transportation Methods in Construction, CO1:July 73:191:9890

Formal Education in Construction Management, CO2:Sept 72:251:9164
TR:138:332
See Shlomo Peer, CO2:Sept 72:287:9166

Washburn, Charles A.
Dsc, PO1:May 73:9690, of "Water Consumption Study for Navajo Plant", PO4:Dec 71:749:8564

Wasserman, Al
Contractual Pitfalls, EPMT:73:37

Wasti, S. Tanvir
See Alexander C. Scordelis, ST10:Oct 73:2031:10069

Wastlund, Georg
Banquet Remarks at the Tall Buildings Conference, TB:73:C-526
Structural Design of Tall Concrete and Masonry Buildings, Preface, with Raymond C. Reese, TB:73: III-1

Watanatada, Thawat
Least-Cost Design of Water Distribution Systems, HY9:Sept 73:1497:9974
Dsc, HY4:Apr 73:693:9637, of "Hydraulic Network Analysis Using Linear Theory", HY7:July 72:1157: 9031

Watkins, Reynold K.
See Alma P. Moser, CE:June 72:61

Watson, George H.
See Frederick E. Culvern, Preprint No.2057, July 73

Watters, Gary Z.
See Kenneth A. Mangelson, SA2:Apr 72:407:8849
See J. K. Virmani, HYB:Aug 73:73

Watts, Frederick J.
Swimming Performance of Arctic Grayling, with Craig MacPhee, HYB:Aug 73:11
See Robert J. Luedtke, HYB:Aug 73:259

Watwood, Vernon B.
Dsc, EM4:Aug 73:891:9894, of "Large Eigenvalue Problems in Dynamic Analysis", EM6:Dec 72: 1471:9433

Wawersik, W. R.
Time-Dependent Rock Behavior in Uniaxial Compression, RM14:73:85

Wayman, Morris
See Edgar J. Dewar, SA1:Feb 72:11:8703

Weaver, David A.
Dsc, TE3:Aug 73:685:9896, of "Local Rural Road Costs and Economies of Scale", TE4:Nov 72:881: 9340

Weaver, David S.
See Gunaratnam Balachandran, TN: EM4:Aug 73: 912:9898

Weaver, Theodore W.
Ecological Consequences of Winter Cloud Seeding, with Arlin B. Super, IR3:Sept 73:387:9988

Webb, Brian C.
The Art of Pipeline Anchoring, Preprint No.2037, July 73

Webb, G. S.
See R. J. Mitchell, PES:72:I-1051

Webber, Bruce R.
See R. S. Gupta, PO1:May 73:235:9756

Webber, Edward S.
Dsc, EE4:Aug 73:564:9893, of "Optimal Design of Urban Wastewater Collection Networks", SA6:Dec 72:853:9414

Weber, Harold E.
Dsc, CE:Nov 73:22, on Putting Pollution Problems In Perspective, CE:Aug 73:64

Weber, John W.
Bending of Spectoral Plates with Clamped Edges, TN: EM2:Apr 73:440:9641

Weber, Thomas E.
Red River Floodway and Related Flood Control Works, Preprint No.1966, Apr 73

Weber, Walter J., Jr.
See Francis A. DiGiano, SA6:Dec 72:1021:9430

Weeden, Harmer A.
Recommended Right-of-Way Practices, CE:Apr 72:74
TR:138:211

Weeks, Colin G. McQ
Hydrography and the Engineer, SU1:Sept 73:1:9981

Weeks, George
Temporal Operators for Nonlinear Structural Dynamics Problems, EM5:Oct 72:1087:9260
TR:138:495

Weeter, Dennis W.
Dsc, SA5:Oct 72:805:9225, of "Research Needs in Sanitary Engineering, Sanitary Engineering Research Committee of the Sanitary Engineering Division", SA2:Apr 72:299:8833
See Archie J. McDonnell, SA2:Apr 72:325:8852

Weggel, J. Richard
Maximum Breaker Height, WW4:Nov 72:529:9384
Dsc: Frederick E. Camfield, WW3:Aug 73:410: 9897; John J. Earattupuzha and Harihar Raman, WW3:Aug 73:410:9897; Cyril J. Galvin, Jr., WW4:Nov 73:499:10114
TR:138:586

Wegmann, Frederick J.
Statewide Transportation Planning, with Everett C. Carter, TE2:May 73:323:9734
See John Whitman, TE3:Aug 72:531:9138
See Shiva K. Pant, TE1:Feb 73:151:9570
See Edward S. Neumann, TE4:Nov 73:827:10155

Wei, S. N.
See Timothy W. Kao, ISSF:Aug 72:581

Weidlinger, Paul
Shear Field Panel Bracing, ST7:July 73:1615:9870
Stiffness and Crack Control, Theme Report, TB:73: III-24-639

Weil, James
Effect of Stream Turbulence on Heated Water Plumes (Abstract), with Hugo B. Fischer, HYB:Aug 73:189

Weiner, Bernard L.
Dsc, CE:Jan 73:63, on How Urgent the Need to Recycle Solid Waste, CE:Sept 72:107

Weingarten, Victor I.
See Mehran Lashkari, EM5:Oct 72:1017:9230
See Henry R. Busby, Jr., EM1:Feb 73:55:9530
See Daniel R. Veronda, Preprint No.2112, Oct 73

Weissmann, Gerd F.
Tilting Foundations, SM1:Jan 72:49:8671
TR:138:152

Welch, R. E.
See E. Bergmann, SDNPF:Dec 73:425

Welti, Clarence W.
See Kent A. Healy, SM11:Nov 72:1275:9306

Welton Becket and Associates
Century Park Plaza, TB:73:C-P-334
Citizens Fidelity Bank, TB:73:C-P-330

Clinton Square, TB:73:C-P-338
First & Merchants National Bank, TB:73:C-P-322
Hampshire Plaza, TB:73:C-P-342
One Hundred Summer Street, TB:73:C-P-314
Pittsburgh National Building, TB:73:C-P-310
Union Bank, TB:73:C-P-326
Valley Center, TB:73:C-P-318
Westchester County Courthouse, TB:73:C-P-302
200 West Monroe Building, TB:73:C-P-306

Wempner, Gerald A.
Invariant Multicouple Theory of Shells, EM6:Dec 72:1397:9444
TR:138:577
On The Nonlinear Theory of Shells, Preprint No.2095, Oct 73

Wen, Yi-Kwei
Analysis of Floating Plate Under Ocean Waves, with Masanobu Shinozuka, WW2:May 72:177:8889
Dsc: Harihar Raman and T. C. Gopalakrichnan, WW2:May 73:290:9694
TR:138:317
Tornado Risks and Design Wind Speed, with Shih-Lung Chu, Preprint No.1958, Apr 73
Tornado Risks and Design Wind Speed, with Shih-Lung Chu, ST12:Dec 73:2409:10249

Wend, Fred H.
Hydraulic Model Study for Big Stone Plant -- Unit 1 Cooling Pond Baffle, with James F. Ruff, Preprint No.2094, Oct 73

Wengert, Norman
The Concept "Institution" in Water Management Usage, Preprint No.1872, Jan 73

Wenk, Edward, Jr.
See Steven Flajser, PP2:Apr 73:245:9665

Wenk, Robert J.
See John E. Johnson, Preprint No.2097, Oct 73

Wennerstrand, Jan
See Robert D. Holtz, PES:73:III-59

Wenzel, Harry G., Jr.
See Yong Nam Yoon, HY9:Sept 71:1367:8373
See Ben Chie Yen, HY8:Aug 72:1395:9107

Wesche, Thomas A.
Parameters Influencing Minimum Streamflow, with Paul A. Rechard, HYB:Aug 73:21

Westhoff, Leonard J.
See Philip W. Birkeland, TB:73:Ib-9-845

Westmann, James D.
Consolidation of Porous Media with Non-Darcy Flow, with Russell A. Westmann, EM6:Dec 73:1201:10211

Westmann, Russell A.
See James D. Schmidt, Preprint No.1986, Apr 73
See James D. Westmann, EM6:Dec 73:1201:10211

Westwood, Ian J.
See Charles K. Haswell, PO2:Oct 72:201:9297

Wheeler, E. Todd
The Hospital as a Microenvironment, PP4:Oct 72:675:9292
TR:138:593

Whetstone, George A.
See Ernst W. Kiesling, CE:Apr 72:50

Whinston, Andrew B.
See David E. Pingry, EE6:Dec 73:909:10208

Whipple, R. Lawrence, Jr.
New Look To ASCE Professional Staff, CE:Oct 73:57
Whipple Joins Expanding Professional Staff, CE:July 73:75

Whipple, William, Jr.
Aeration System for Large Navigable Rivers, with Shaw L. Yu, SA6:Dec 71:883:8601
Dsc: Albert G. Holler, Jr., SA4:Aug 72:678:9077
Clo: EE1:Feb 73:91:9521
TR:138:135
Corps of Engineers Plans Regional Water Quality Program, CE:Mar 72:37
Dsc: William J. Bauer, CE:Aug 72:46; Sam G. Baladi, CE:Oct 72:66
TR:138:118
Water Pollution Control Institutions, PP1:Jan 72:13:8667
TR:138:215
Dsc, SA6:Dec 72:1050:9393, of "Optimal Water Quality Management for Houston Ship Channel", SA1:Feb 72:195:8715

White, Ardis H.
See Narsing M. Patel, Preprint No.1963, Apr 73

White, E. James
Quality Control Criteria, Summary Report, with Robert L'Hermite and I. Gramolin, TB:73:Ib-9-901

White, Edward E.
Foundations, State-of-Art Report 4, TB:73:Ia-4-715

White, George C.
Dsc, SA4:Aug 72:666:9077, of "Bromine and Bromamine Disinfection Chemistry", SA5:Oct 71:617:8425
See Harvey F. Collins, SA5:Oct 71:549:8430
See Harvey F. Collins, SA4:Aug 72:664:9077

White, James K.
Dsc, IR2:June 72:334:8926, of "Aqueducts for the Least Cost Conveyance of Water", IR3:Sept 71:483:8381

White, Larry A.
See Boris S. Browzin, SM12:Dec 72:1404:9394

White, Richard N.
Experimental Studies of Membrane Shear Transfer, with Myle J. Holley, Jr., ST8:Aug 72:1835:9145
Dsc: C. N. Krishnaswamy, Bryan A. Erler and Adolf Walser, ST7:July 73:1664:9826
TR:138:406
See Harry G. Harris, ST7:July 72:1633:9074
See Asadul H. Chowdhury, Preprint No.2002, Apr 73

White, William A.
Status Report of Surveying and Mapping Division, SU2:Nov 71:267:8532
Dsc: Gunther Greulich, SU2:Nov 72:237:9308
TR:138:121

White, William Rodney
See Peter Ackers, HY11:Nov 73:2041:10167

Whiteaker, Ray T.
See Abdel-Aziz I. Kashef, SM12:Dec 72:1429:9394

Whitehead, Carl F.
Ludington, Mich., Pumped Storage Project, CE:June 73:64
Dsc: Robert H. Griffin, CE:Oct 73:26

Whitman, John
Cost Estimating Model for Rural Interstate Highways, with Frederick J. Wegmann, TE3:Aug 72:531:9138
Dsc: Norman W.F. Fisher, TE3:Aug 73:683:9896
TR:138:402

Whitman, Robert V.
Case Study of Dynamic Soil-Structure Interaction, with John N. Protonotarios and Mark F. Nelson, SM11:Nov 73:997:10175

Dynamic Soil-Structure Interaction, TB:73:Ib-6-310
Dsc, CE:Aug 72:68, on Report on Conference on 1971 San Fernando, Ca., Earthquake, CE:May 72:58
See H. Bolton Seed, SM8:Aug 72:787:9108
See C. Martin Duke, TB:73:Ib-6-255
See Jose M. Roesset, ST3:Mar 73:399:9603

Whitney, James M.
Analytical and Experimental Methods in Composite Mechanics, ST1:Jan 73:113:9477

Whittington, Richard B.
Siphons: Some Scale-Effects in Models, with Kamil H.M. Ali, HY1:Jan 72:45:8629
Dsc: Fred W. Blaisdell and Kesavarao Yalamanchili, HY12:Dec 72:2236:9391; Fred W. Blaisdell and Clayton L. Anderson, HY12:Dec 72:2237:9391; Fred W. Blaisdell, HY12:Dec 72:2239:9391
Errata: HY4:Apr 73:683:9637
Clo: HY6:June 73:982:9760
TR:138:94

Whitton, Rex M.
Six Join Ranks Of ASCE Honorary Members, CE:Oct 73:89

Wickstrom, George C.
Integrated Measurement Framework for Transportation Planning, TE2:May 72:275:8910
TR:138:241

Wiegel, Robert L.
See Madan M. Das, WW1:Feb 72:49:8707
See Richard Dornhelm, PO1:June 72:29:8975

Wiersema, Harry
Dsc, PP4:Oct 73:10040, of "Nader's Raiders Versus California Water Project", PP1:Jan 73:39:9490
Dsc, PP4:Oct 73:541:10040, of "The Public Role of Engineering: the California State Water Project", PP1:Jan 73:19:9492

Wiggert, David C.
Transient Flow in Free-Surface, Pressurized Systems, HY1:Jan 72:11:8628
TR:138:87

Wiggins, John H.
The Balanced Risk Concept: New Approach to Earthquake Building Codes, CE:Aug 72:55
Dsc: Howard L. Metcalf, CE:Nov 72:49; Max W. Strauss, CE:Nov 72:49; Emilio Rosenblueth, CE:Jan 73:57; Otto W. Steinhardt, CE:Feb 73:65; Otto W. Steinhardt, CE:Mar 73:48; Joseph P. Connolly, CE:Mar 73:51
TR:138:377

Wilbik, Josef
See Jan Brodka, TB:73:II-14-201

Wild, Edward Charles
Memoir of, TR:138:646

Wilder, Dale G.
Dsc, SM1:Jan 73:148:9461, of "Subsurface Investigation for Design and Construction of Foundations of Buildings: Part II, Task Committee for Foundation Design Manual of the Committee on Shallow Foundations of the Soil Mechanics and Foundations Division", SM6:June 72:557:8944

Wildt, Roger H.
Repair of Steel Structures After Fire, TB:73:Ib-8-688

Wiley, Jack C.
Beams Subjected to a Follower Force Within the Span, with Richard E. Furkert, EM6:Dec 72:1353:9441
Dsc: Karl K. Stevens, EM5:Oct 73:1099:10041
TR:138:569

Wilhelm, Wilbur E., Jr.
Review of Car-Following Theory, with J. W. Schmidt, TE4:Nov 73:923:10165
See Jason C. Yu, Preprint No.2059, July 73

Wilhoite, Gene M.
Design of Steel Transmission Pole Structures, Task Committee on Steel Transmission Poles, Committee on Analysis and Design of Structures, Preprint No.2021, Apr 73
Wind Recommendations for Transmission Towers, ST2:Feb 72:447:8723
TR:138:142

Wilke, Ott C.
Theoretical Irrigation Tailwater Volumes, TN: IR3:Sept 73:415:9967

Wilkinson, David L.
Dynamics of Contained Oil Slicks, HY6:June 72:1013:8950
Dsc: Cesar Farell, Subhash C. Jain and Oktay Guven, HY7:July 73:1167:9823
TR:138:324
Limitations to Length of Contained Oil Slicks, HY5:May 73:701:9711

Wilkinson, Thomas Lee
Analysis of Nailed Joints with Dissimilar Members, ST9:Sept 72:2005:9189
Errata: ST7:July 73:1669:9826
TR:138:437

Wilks, Jack J.
See John M. Shields, SU1:July 72:67:9057

Willardson, Lyman S.
Attainable Irrigation Efficiencies, IR2:June 72:239:8957
TR:138:331
See Sterling J. Richards, IR4:Dec 73:457:10243

Willeke, George E.
Theory and Practice of Public Participation in Planning, Preprint No.18[illegible], Jan 73

Willems, Nicholas
See Bogdan O. Kuzmanovic, ST8:Aug 72:1697:9154

Willenbrock, Jack H.
Estimating Costs of Earthwork via Simulation, CO1:Mar 72:49:8763
TR:138:208
Utility Function Determination for Bidding Models, CO1:July 73:133:9843

William, Kaspar J.
Cellular Structures of Arbitrary Plan Geometry, with Alexander C. Scordelis, ST7:July 72:1377:9013
TR:138:315

Williams, Frederic W.
Rapid Reduction of Banded Stiffness Matrices, TN: ST5:May 73:967:9704

Williams, Garnett P.
Dsc, HY6:June 73:989:9760, of "Unit Stream Power and Sediment Transport", HY10:Oct 72:1805:9295

Williams, Glen N.
Enhancement of Convergence of Pipe Network Solutions, HY7:July 73:1057:9852

Williams, Gordon R.
Dsc, HY10:Oct 72:1892:9222, of "Technological Innovation and Hydraulic Engineering", HY5:May 72:751:8897

Williams, Harry E.
Linear Theory of Thin Rings, EM5:Oct 72:1031:9232
TR:138:436

Williams, James H., Jr.
Deformation in Multiple Tier Cylindrical Shells, TN: EM10:Oct 73:1114:10041

Williams, Jimmy R.
Sediment Yield Computed With Universal Equation, with Harold D. Berndt, HY12:Dec 72:2087:9426
Dsc: Ruh-Ming Li and Daryl B. Simons, HY11: Nov 73:2145:10109
TR:138:578

Williams, Kingsley G.
Cyclic Flows Resulting From Localized Disturbances in Stratified Fluids, with Thomas H. Bell, ISSF:Aug 72:699

Williams, Merlin C.
The South Dakota Weather Modification Program, Preprint No.1883, Jan 73

Williams, Philip B.
Initiation of Ripples by Artificial Disturbances, with Patrick H. Kemp, HY6:June 72:1057:8952
TR:138:328

Williams, Theodore T.
See Lee Robinson, HY10:Oct 72:1773:9294
See Donald W. Boyd, HYB:Aug 73:269

Williamson, James C.
See Hal K. Puckett, Preprint No.2047, July 73

Williamson, James V.
Combining Flow in Branches and Wyes, HYB:Aug 73:215
Dividing Flow in Branches and Wyes, with Thomas J. Rhone, HY5:May 73:747:9729

Williamson, Robert A.
Stability Study of Guyed Tower Under Ice Loads, ST12:Dec 73:2391:10242

Williamson, Robert B.
See P. K. Mehta, Preprint No.2100, Oct 73

Willimas, Gordon R.
Dsc, IR2:June 73:197:9761, of "Impact of Drought on New Jersey's Water Resources", IR3:Sept 72: 375:9205

Willis, Joe C.
Laboratory Study of Transport of Fine Sand, with Neil L. Coleman and Wilbert M. Ellis, HY3:Mar 72:489:8765
Dsc: Anton A. Kalinske, HY11:Nov 72:2049: 9305; K. Gopaladrishnan and John F. Kennedy, HY2:Feb 73:378:9523
TR:138:183

Willis, Maynard J.
Planning Concrete Dam Construction Control Surveys, SU1:July 72:27:9045
TR:138:255

Wills, Lawrence A.
Anticipating Urban Environmental Concerns for the Means of Transportation, Preprint No.2101, Oct 73

Willson, John E.
See Michael K. McCarter, RM14:73:223

Willson, Richard J.
Operation and Maintenance of Irrigation and Drainage Systems: Section II--Organization for Operation and Maintenance, Committee on Operation and Maintenance of Irrigation and Drainage Systems of the Irrigation and Drainage Division, IR4:Dec 71:601:8613
Dsc: Basil R. Streeten, IR2:June 72:339:8926
Clo: IR4:Dec 72:609:9392
TR:138:76

Wilson, Carl D.
See Eugene I. Chaiken, CE:May 73:49

Wilson, David Gordon
Pallet Systems for Integrating Urban Transportation, TE2:May 72:225:8900
TR:138:212

Wilson, Edward H.
Boundary Layer Effects on Hydraulic Jump Location, with Andrew A. Turner, HY7:July 72:1127:9007
Dsc: Franz Valentin, HY7:July 73:1170; Palepu V. Rao, HY7:July 73:1172
TR:138:341
Dsc, HY12:Dec 72:2226:9391, of "Characteristics of Flow Weirs of Finite Crest Width", HY11:Nov 71: 1807:8515
Dsc, HY12:Dec 72:2232:9391, of "Hydraulic Jump Assisted by Cross-Jet", HY12:Dec 71:2037:8614
Dsc, HY4:Apr 73:698:9637, of "Effects of Inflow Condition on Hydraulic Jump", HY8:Aug 72:1367: 9088

Wilson, Edward L.
See Jamshid Ghaboussi, EM4:Aug 72:947:9152
See Klaus-Jurgen Bathe, EM6:Dec 72:1471:9433
See Klaus-Jurgen Bathe, EM3:June 73:467:9782
See Guy Lefebvre, SM7:July 73:495:9857
See Jamshid Ghaboussi, SM10:Oct 73:833:10095
See Jamshid Ghaboussi, SM10:Oct 73:849:10053

Wilson, Eric M.
See G. V. Eckenfelder, CE:May 73:45

Wilson, J. E.
See Frederick E. Culvern, Preprint No.2057, July 73

Wilson, John L., III
See Michael A. Collins, HY9:Sept 72:1701:9215
See Lynn W. Gelhar, HY12:Dec 72:2135:9439

Wilson, L. G.
Pollution Potential of a Sanitary Landfill Near Tucson, with Gary G. Small, HYB:Aug 73:427

Wilson, Nigel H.M.
See Richard de Neufville, Preprint No.2061, July 73

Wilson, Robert C.H.
Dsc, EE2:Apr 73:162:9635, of "Environmental Planning and Ecological Possibilities", SA3:June 72: 579:8994

Wilson, Stanley D.
Instrumentation Applied to Slope Stability Problems, with David E. Hilts, TE3:Aug 72:563:9101
TR:138:316
See Arthur Casagrande, PES:72:I-551

Wilson, Wallace Estill
Dsc, SM2:Feb 72:240:8683, of "Breakout Resistance of Objects Embedded in Ocean Bottom", SM9:Sept 71:1183:8372

Win, Maung M.
See James N. Siddall, ST6:June 73:1043:9772

Winant, C. D.
Experimental Comparison of the Non-Linear Behaviour of Stratified and Unstratified Shear Layers, ISSF8:Aug 72:709

Windom, Herbert L.
Environmental Aspects of Dredging in Estuaries, WW4:Nov 72:475:9342
TR:138:529
Mercury Distribution in Estuarine-Nearshore Environment, WW2:May 73:257:9753

Windsor, James S.
Multireservoir Optimization Model, with Ven Te Chow, HY10:Oct 72:1827:9304
TR:138:532

Wineland, Jeff Andrew
Memoir of, TR:138:647

Winfrey, Robley
See Wm. Campbell Graeub, TE2:May 72:263:8906

Wing, Ho
See Heinz Stefan, PO2:Oct 72:253:9241

Winger, Parley V.
See James R. Barton, HYB:Aug 73:1

Winslow, Reed H.
Evaluation of New Systems For Urban Transportation, with Jerry L. Pfeffer, TE4:Nov 72:757:9354
  TR:138:518

Winter, Donald F.
A Similarity Solution for Circulation in Stratified Fjords, ISSF:Aug 72:717

Winter, George
Six Join Ranks Of ASCE Honorary Members, CE:Oct 73:90
Stability, Theme Report, TB:73:II-16-409
See Peter Gergely, ST10:Oct 72:2165:9236

Winters, Leon
Dsc, CE:Apr 73:81, on Anti-Technology--The New Myth, CE:Jan 72:68

Wirshing, Paul H.
Probabilistic Design for Random Fatigue Loads, with Edward B. Haugen, EM6:Dec 73:1165:10223

Wisely, F. E.
City of St. Louis-Union Electric Company Process Solid Waste as a Boiler Fuel, with G. Wayne Sutterfield and David L. Klumb, Preprint No.2114, Oct 73
St. Louis Powerplant Burns City Refuse, with G. Wayne Sutterfield and David L. Klumb, CE:Dec 72:30
  TR:138:518

Wisely, William H.
The Aftermath of Article Three, CE:Jan 72:37
  TR:138:1
Engineering and Public Service - A Renaissance, PP1:Jan 73:1:9486
  Dsc: David A. Bella, PP4:Oct 73:536:10040
People, Ecology and the Aswan High Dam, CE:Feb 72:37
  Dsc: James K. Carr, CE:May 72:65; A. Dale Swisher, CE:July 72:65
  TR:138:67
The Role of the Civil Engineer in Statewide Health Planning, PP4:Oct 72:669:9284
  TR:138:592
Six Join Ranks Of ASCE Honorary Members, CE:Oct 73:90
Some Reflections at Retirement Time, CE:Apr 72:45
  TR:138:174
The Urban Growth Syndrome, PP3:July 72:323:9027
  TR:138:358

Wiseman, Gdalyah
Flexible Pavement Evaluation Using Hertz Theory, TE3:Aug 73:449:9921

Wissa, Anwar E.Z.
Consolidation at Constant Rate of Strain, with John T. Christian, Edward H. Davis and Sigurd Heiberg, SM10:Oct 71:1393:8447
  Dsc: Y. P. Vaid and Richard E. Campanella, SM5:May 72:508:8860; William E. Kelly, SM5:May 72:510:8860; William F. Brumund and Gordon W. Callender, Jr., SM8:Aug 72:830:9078; Peter M. Byrne, SM9:Sept 72:963:9158
  Clo: SM7:July 73:561:9825
  TR:138:51

Witherspoon, Paul A.
See James K. Mitchell, SM4:Apr 73:307:9678

Witteveen, J.
Beam-to-Column Connections in Non-Sway Frames, with C. T.J. Bakker, TB:73:II-15-386
A Probabilistic Approach Toward Integrated Fire Engineering Design, TB:73:Ib-8-728

Wofford, John G.
Participation Planning for Boston Metro-Area Transportation, CE:Apr 73:78

Wolanski, Eric. J.
Dsc, HY7:July 73:1198:9823, of "Dispersion From Pit in Uniform Seepage", HY1:Jan 73:13:9474

Wolf, John P.
Post-Buckled Strength of Large Space-Truss, TN: ST:July 73:1708:9828

Wolf, Paul R.
Modified Methods in Numerical Radial Triangulation, with Lloyd T Bartlett, SU1:Sept 73:121:10028

Wolfe, James E.
Cement Mortar Lining of 20-Ft Diameter Steel Pipe, TE4:Nov 72:837:9327
  TR:138:462

Wolfe, Timothy A.
New Staff Members For Technical Activities, CE:Aug 73:69

Wolford, Donovan S.
Dsc, Cold Formed Steel Structures, CE:Nov 73:28

Wolka, Kevin
See David Brenchley, CE:Mar 73:83

Wolla, M. L.
See Chan F. Lam, HY2:Feb 72:335:8729
See Chan F. Lam, HY3:Mar 72:447:8782

Wolofsky, Leib
Dsc, HY11:Nov 73:10109, of "Reevaluating Spillway Adequacy of Existing Dams, by the Task Committee on the Reevaluation of the Adequacy of Spillways of Existing Dams, of the Committee on Hydrometeorology of the Hydraulic Division", HY2:Feb 73:337:9571

Won, William D.
Persistence of Virus and Bacteria in Seawater, with Harold Ross, EE3:June 73:205:9781

Wong, Andrew K.C.
See Tung Au, PP4:Oct 72:693:9286
See Tung Au, Preprint No.1993, Apr 73

Wong, Jo-Yung
Dsc, SM9:Sept 72:977:9158, of "Stress Field Under Slipping Rigid Wheel", SM1:Jan 72:13:8625

Wong, Kam W.
Computer Program System for Aerotriangulation, with G. Elphingstone, SU2:Nov 72:219:9322
  TR:138:470
Dsc, "The Surveillant Science: Remote Sensing Of The Environment", CE:Nov 73:28

Woo, Dah-Cheng
Dsc, HY3:Mar 73:549:9580, of "Conceptual Hydrologic Models for Urbanizing Basins", HY7:July 72:1205:9024

Woo, Wai Ling
See Donald R. Drew[illegible]W3:Aug 72:393:9131

Wood, Brian R.
Dsc, with Peter F. Adams, ST1:Jan 73:209:9462, of "Approximate Determination of Frame Critical Loads", ST3:Mar 72:695:8771

Wood, Don J.
Hydraulic Network Analysis Using Linear Theory, with Carl O.A. Charles, HY7:July 72:1157:9031
Dsc: Thawat Watanatada, HY4:Apr 73:693:9637; Trevor R. Fietz, HY5:May 73:855:9689; Elisha Kally, HY5:May 73:857:9689
Clo: HY11:Nov 73:2129:10109
TR:138:366
Water-Hammer Charts for Various Types of Valves, with S. E. Jones, HY1:Jan 73:167:9500

Wood, Eric
See John C. Schaake, Jr., IR3:Sept 73:409:9962

Wood, Ian R.
Flow of Layered Fluid Over Broad Crested Weir, with K. K. Lai, HY1:Jan 72:87:8649
TR:138:108

Wood, Jack
See Bob Beaver, CE:Mar 73:62

Wood, Randall H.
Rigid-Jointed Multi-Storey Frame Design, State-of-Art Report 2, TB:73:II-15-293

Woodbridge, David D.
Effects of Irradiation of Secondary Effluent, with William R. Garrett and Pricilla C. Cooper, Preprint No.2085, Oct 73

Woodhead, R. W.
Transportation Problem Formulation and Evaluation, with R. H. Wortman, Preprint No.2042, July 73

Woods, Richard D.
See Kenneth H. Stokoe, II, SM5:May 72:443:8904

Woods, Stanley W.
Dsc, ST4:Apr 73:797:9640, of "Historical Development of Cable-Stayed Bridges", ST9:Sept 72:2079:9201

Woodson, Riley D.
Logical Approaches to Power Supply and Environment, PO2:Oct 72:181:9257
Dsc: Roy F. Bessey, PO1:May 73:261:9690
TR:138:525

Woodward, James H.
Vibration of Heavy Industrial Slabs, with Claudie K. McDonald, TN: ST8:Aug 73:1797:9911

Woodward, Richard J.
See James K. Mitchell, TN: SM10:Oct 73:905:10042

Woolcock, Scott T.
See Nicholas S. Trahair, EM1:Feb 73:85:9548

Woolhiser, David A.
See Hai Yain Chang, WW1:Feb 71:155:7869

Wortley, C. Allen
Lake Superior Yachting Marinas Resist Ravages of Ice, CE:Feb 72:47
TR:138:79
Dsc, PP4:Oct 73:535:10040, of "Guideline: Employer--Engineer Relationship, Committee on Employment Conditions of the Professional Practice Division", PP4:Oct 72:523:9279
See John P. Klus, CE:Jan 72:49

Wortman, R. H.
See R. W. Woodhead, Preprint No.2042, July 73

Wright, E. Whitman
Unbraced Multistory Steel Frames with Wind Load, ST1:Jan 72:185:8633
TR:138:78

Wright, James L.
Peak Water Requirements of Crops in Southern Idaho, with Marvin E. Jensen, IR2:June 72:193:8940
TR:138:236

Wright, Kenneth R.
Dsc, PP4:Oct 72:727:9224, of "Ethical and Social Responsibility in the Planning and Design of Engineering Projects", PP1:Jan 72:33:8657

Wright, Paul J.
Lime Slurry Pressure Injection Tames Expansive Clays, CE:Oct 73:42
Dsc: D. Earl Jones, Jr., CE:Dec 73:32

Wright, Richard N.
Survey of Fire and Live Loads, TB:73:Ib-5-128
See Felix Y. Yokel, TB:73:III-26-949

Wright, Stephen G.
Accuracy Equilibrium Slope Stability Analyses, with Fred H. Kulhawy, SM10:Oct 73:783:10097
Analysis of Waco Dam Slide, with James M. Duncan, SM9:Sept 72:869:9210
Dsc: Prakas Kumar De, SM4:Apr 73:363:9639; Ralph R.W. Beene, SM7:July 73:573:9825; Kolinjuvadi S. Sankaran and Ravikumar Bhaskaran, SM8:Aug 73:635:9892
TR:138:472

Wright, Steven J.
See John A. Roberson, HYB:Aug 73:63

Wroth, C. P.
Dsc, PES:73:III-231, of "Design and Performance of Deep Foundations", PES:73:II-111

Wu, I-pai
Hydraulics and Uniformity for Drip Irrigation, with H. M. Gitlin, IR2:June 73:157:9786
Optimal Irrigation Quantity and Frequency, with Tung Liang, IR1:Mar 72:117:8776
Errata: IR1:Mar 73:114:9581
TR:138:171
Recession Flow in Surface Irrigation, IR1:Mar 72:77:8764
Dsc: Pratap Singh and H. S. Chauhan, IR1:Mar 73:111:9581
Clo: IR4:Dec 73:513:10183
TR:138:116
See Soronadi Nnaji, IR1:Mar 73:15:9612

Wu, Jin
Physical Scales for Generation of Wind Waves, WW2:May 72:163:8879
Dsc: James B. Bole, WW2:May 73:288:9694
TR:138:281
Prediction of Near-Surface Drift Currents from Wind Velocity, HY9:Sept 73:1291:9995

Wu, Spencer T.
See Zdenek P. Bazant, EM2:Apr 73:367:9645
See Zdenek P. Bazant, Preprint No.2110, Oct 73

Wu, Tien H.
Probabilistic Analysis of Seepage, with Shyam K. Vyas and Nien-Yin Chang, SM4:Apr 73:323:9687
Dsc, PP2:Apr 72:291:8818, of "Annual Address", PP1:Oct 71:5:8466

Wung, Shyr-Jen
See Anestis S. Veletsos, EM2:Apr 72:311:8806

Wyatt, T. A.
Design Developments - Europe, Africa, State-of-Art Report 5, TB:73:Ib-7-407

Wylie, E. Benjamin
See Victor L. Streeter, Preprint No.1952, Apr 73

Wynhoven, Jacobus H.
Analysis of Three-Dimensional Structures, with Peter F. Adams, ST1:Jan 72:233:8643
  Dsc: Bernardo J. Deschapelles, ST10:Oct 72:2323:9227
  Clo: ST4:Apr 73:791:9640
  TR:138:109
Behavior of Structures Under Loads Causing Torsion, with Peter F. Adams, ST7:July 72:1361:9010
  Clo: ST10:Oct 73:2210:10039
  TR:138:306

Yachnis, Michael
See William J. Bobisch, ST7:July 72:1465:9019

Yagar, Sam
Analysis of Passenger Delays at Airport Terminals, TE4:Nov 73:909:10152

Yagi, Shunsaku
See Hisashi Sumitomo, EE1:Feb 73:92:9521

Yalamanchili, Kesavarao
See Fred W. Blaisdell, HY12:Dec 72:2236:9391

Yale, Glenn A.
See George E. Hecker, HYB:Aug 73:335

Yalin, M. Selim
Determination of Kennedy's Parameter j for Dunes, TN: HY8:Aug 73:1287:9910

Yamada, Minoru
Effect of Cyclic Loading on Buildings, State-of-Art Report 1, TB:73:II-18-725
Ultimate Deformation of Reinforced Concrete, TB:73:III-22-467

Yamamoto, Tokuo
Wave Forces on Cylinders Near a Plane Boundary, with John H. Nath and Larry S. Slotta, HYB:Aug 73:155

Yanagida, Norio
See John Eric Edinger, HY2:Feb 72:412:8681

Yanev, Peter I.
Industrial and Power Plant Damage from the Managua, Nicaragua Earthquake of December 23, 1972, with Roland O. Marsh, SDNPF:Dec 73:397

Yang, Cheng Y.
See Mehmet Aziz Tayfun, EM6:Dec 72:1606:9390

Yang, Chih Ted
Incipient Motion and Sediment Transport, HY10:Oct 73:1679:10067
Unit Stream Power and Sediment Transport, HY10:Oct 72:1805:9295
  Dsc: Garnett P. Williams, HY6:June 73:989:9760; Thomas Maddock, Jr., HY7:July 73:1191:9823; Jade Dattatri, HY8:Aug 73:1282:9895; Louis M. Laushey, HY9:Sept 73:1642:9961; S. N. Sarkar, HY9:Sept 73:1645:9961
  TR:138:519

Yang, T. Y.
High Order Rectangular Shallow Shell Finite Element, EM1:Feb 73:157:9519

Yang, Yue-Chyou
Record Concrete Shell Roof Featured in Coliseum, CE:June 72:51
  Dsc: Felix Kulka, CE:Oct 72:76
  TR:138:275
Dsc, WW3:Aug 72:423:9081, of "Ultimate Energy Design of Prestressed Concrete Fender Piling", WW4:Nov 71:647:8527

Yao, James T. P.
Concept of Structural Control, ST7:July 72:1567:9048
  TR:138:357
Fatigue Reliability and Design, Preprint No.2023, Apr 73
Dsc, PP3:July 72:465:9001, of "Annual Address", PP1:Oct 71:5:8466
See Jhy-Pyng Tang, ST1:Jan 72:125:8647
See Jhy-Pyng Tang, EM3:June 72:695:8986
See Aybars Gurpinar, ST9:Sept 73:1875:9978

Yao, Kuan M.
Design of High-Rate Settlers, EE5:Oct 73:621:10051
Hydraulic Control for Flow Distribution, SA2:Apr 72:275:8808
  Dsc: Hisashi Sumitomo and Shunsaku Yagi, EE1:Feb 73:92:9521; Ben Chie Yen, EE1:Feb 73:94:9521
  TR:138:271
Mathematical Model for Rate Studies, SA4:Aug 72:635:9146
  Errata: EE3:June 73:387:9758
  TR:138:442

Yarimci, Erol
The Equivalent-Beam Approach in Tall Buildings Stability Analysis, TB:73:II-16-553
Dsc, ST1:Jan 72:372:8623, of "Collapse Load Analysis Using Linear Programming", ST5:May 71:1561:8127

Yarmowich, Edward P.
See John A. Cunningham, CE:Nov 73:62

Yeh, Chang-hua
Nonlinear Dynamic Analysis of Cooling Tower, PO1:June 72:49:8983
  TR:138:228
Stability and Dynamic Analyses of Cooling Tower, with William Y.J. Shieh, PO2:Nov 73:339:10141

Yeh, William W-G.
Linear Programming and Channel Flow Identification, with Leonard Becker, HY11:Nov 73:2013:10177
See William J. Trott, HY10:Oct 73:1865:10065

Yen, Ben Chie
Open-Channel Flow Equations Revisited, EM5:Oct 73:979:10073
Resistance Coefficients for Steady Spatially Varied Flow, with Harry G. Wenzel, Jr. and Yong Nam Yoon, HY8:Aug 72:1395:9107
  TR:138:415
Dsc, EE1:Feb 73:94:9521, of "Hydraulic Control for Flow Distribution", SA2:Apr 72:275:8808

Yen, Ben T.
See Joseph A. Corrado, ST7:July 73:1439:9854

Yen, Chin-lien
Shape Effects on Resistance in Flood-Plain Channels, with Donald E. Overton, HY1:Jan 73:219:9506
  Errata: HY11:Nov 73:2157:10109
See Charles B. England, HY9:Sept 73:1630:9961

Yiesghen, Ghebreiesus
See George R. Beetle, TE4:Nov 73:966:10110

Yilmaz, Mehmet
See Thomas H. Hanna, SM11:Nov 72:1187:9338

Yoder, Charles W.
Charles W. Yoder Becomes ASCE President, CE:Oct 73:87

Yokel, Felix Y.
Engineers Inquiry Box: Unreinforced Masonry Load-Bearing Walls, CE:Nov 73:79
Limit States Design, Summary Report, with Richard N. Wright, TB:73:III-26-949
Stability and Load Capacity of Members with No Tensile Strength, ST7:July 71:1913:8253
  Dsc: Sven Sahlin, ST3:Mar 72:775:8752; Ganpat S. Pandit, ST4:Apr 72:940:8802; Wai F. Chen, ST5:May 72:1193:8861
  Clo: ST4:Apr 73:788:9640
  TR:137:976

Strength of Load-Bearing Masonry Walls, with Robert D. Dikkers, ST5:May 71:1593:8143
Dsc: Donald F. Meinheit, ST2:Feb 72:522:8684; John Springfield, ST2:Feb 72:523:86
Clo: ST5:May 73:948:9693
TR:137:943

Yokoo, Y.
Lateral Vibration and Damping Due to Wind and Earthquake Effects, State-of-Art Report 1, with H. Akiyama, TB:73:II-17-619

Yong, Raymond N.
Stress Propagation in a Frequency Dependent Material, with Jean C. Dutertre and Raymond J. Krizek, Preprint No.2020, Apr 73
See Robert M. Quigley, TN: SM5:May 73:417:9703

Yoo, Chai Hong
Plastic Collapse of Horizontally Curved Bridge Girders, with Conrad P. Heins, Jr., ST4:Apr 72:899:8848
Dsc: Ganpat S. Pandit, ST4:Apr 73:791:9640
Clo: ST10:Oct 73:2209:10039
TR:138:221

Yoon, Yong Nam
Mechanics of Sheet Flow Under Simulated Rainfall, with Harry G. Wenzel, Jr., HY9:Sept 71:1367:8373
Dsc: Wilfried Brutsaert, HY2:Feb 72:406:8681; Ramachandra A. Rao, Ismail T. Kisisel and Jacques W. Delleur, HY6:June 72:1082:8925; Kanwar S. Satija, HY8:Aug 72:1456:9076
Clo: HY4:Apr 73:675:9637
TR:138:13
See Ben Chie Yen, HY8:Aug 72:1395:9107

York, Donald
See Anthony J. Tozzoli, CE:Aug 73:56

Yorkdale, Alan H.
Computer Design of Engineered Brick Masonry, with Robert P. Anderson, ST5:May 72:1119:8916
Errata: ST10:Oct 72:2328:9227
TR:138:271
Masonry Building Systems, State-of-Art Report 9, TB:73:Ia-3-567

Yoshida, Hiroshi
Inelastic Lateral Buckling of Restrained Beams, with Yoshihiro Imoto, EM2:Apr 73:343:9666
Dsc: James W. Chai, EM5:Oct 73:1102:10041
Lateral-Torsional Buckling of Bulit-Up Beam-Columns, with Susumu Nishida, TN: ST7:July 73:1713:9828

Yoshida, Shizuo
See Masakazu Kashiwamura, ISSF:Aug 72:589

Yoshimura, Tomotsuka
See Yoshimi Goda, WW2:May 73:285:9694

Yotsukura, Nobuhiro
Tracer Simulation of Soluble Waste Concentration, with Frederick A. Kilpatrick, EE4:Aug 73:499:9947

Youd, T. Leslie
Compaction of Sands By Repeated Shear Straining, SM7:July 72:709:9063
TR:138:382
Dsc, with Terry N. Craven, SM12:Dec 72:1423:9394, of "Settlement of Dry Sands During Earthquakes", SM4:Apr 72:381:8844
See Robert O. Castle, PES:73:III-91
See Robert O. Castle, PES:73:III-91

Young, Chandler P.
Client Relations, EPMT:73:63

Young, Garland E.
Lavon Dam Modification, Preprint No.1923, Apr 73

Young, George K., Jr.
See Salvatore J. Bellomo, TE1:Feb 72:51:8742

Young, Reginald H.F.
See Gordon L. Dugan, EE5:Oct 73:691:10046

Young, Robert I.
Foundation Design for Steel Mill Building, CO1:July 73:35:9834

Young, Robert J.
Surface Bonded Masonry Construction, TB:73:III-27-1099
Team Effort, TB:73:C-DM-215

Young, Roger O.
See Edward A. Cecil, PO1:June 72:11:8967

Young, William H.
See Haywood G. Dewey, Jr., Preprint No.1999, Apr 73
See Haywood G. Dewey, Jr., PO2:Nov 73:405:10169

Youngblood, Walton M.
See Rufus H. Carter, SA4:Aug 72:663:9077

Youngs, E. G.
Dsc, HY7:July 73:1185:9823, of "Perturbation Analysis of Two-Phase Infiltration", HY9:Sept 72:1527:9186

Yu, Jason C.
Dynamic Programming Runway Configuration Schemes, with David R. Gibson, Preprint No.2034, July 73
GASP Simulation of Terminal Air Traffic System, with Wilbur E. Wilhelm, Jr. and Shamsul A. Akhand, Preprint No.2059, July 73
Optimizing Transportation Facility Arrangements, with Ronald K. Giguere, TE4:Nov 73:725:10126
Parking Facility Layout: Level-of-Service Approach, with Alexander R. Lincoln, TE2:May 73:297:9728
Roadway Capacity Related to Curb-Parking Maneuver, with Henry C. Van Dyke, TE3:Aug 73:467:9932
See Michael J. Quillem, TE4:Nov 72:769:9355

Yu, Shaw L.
See William Whipple, Jr., SA6:Dec 71:883:8601

Yu, Wei-Wen
Cold-Formed Steel Members with Perforated Elements, with Charles S. Davis, ST10:Oct 73:2061:10059

Yucel, Oner
Wall Shear Stress Measurements with Hot-Film Sensors, with Walter H. Graf, HYB:Aug 73:55
Dsc, HY1:Jan 73:263:9459, of "Bed Load Transportation in Alluvial Channels", HY5:May 71:653:8091

Yudhbir
Dsc, with B. Prasad, SM11:Nov 73:1023:10112, of "Soil Parameters for Design of Mt. Baker Ridge Tunnel in Seattle", SM1:Jan 73:111:9511

Yuill, Calvin H.
Fire Safety, TB:73:Ib-8-677
Dsc, TB:73:Ib-8-679, of "Fire and Blast, Theme Report", TB:73:Ib-8-463

Yu-Tek, Li
Dsc, HY11:Nov 72:2047:9305, of "Spatially Varied Flow Over Side-Weirs", HY1:Jan 72:1:8627

Zaghlool, E. Ramzy F.
Strength Analysis of Corner Column-Slab Connections, ST1:Jan 73:53:9471
Tests of Flat-Plate Corner Column-Slab Connections, with H. A. Rawdon de Paiva, ST3:Mar 73:551:9616

Zagustin, Konstantin
The Effect of Large Scale Circulation on the Interface of Stratified Flows, ISSF:Aug 72:727

Zahn, John J.
Lateral Stability of Wood Beam-and-Deck Systems, ST7:July 73:1391:9829
See Paul M. Jenkinson, ST3:Mar 72:599:8786

Zaidi, Saigid Tauquir Haider
Dsc, ST12:Dec 73:2485:10185, of "Shear Strength of Continuous Plates", ST5:May 72:961:8876

Zajic, James E.
See Robert M. Quigley, TN: SM5:May 73:417:9703

Zakic, Borislav D.
Inelastic Bending of Wood Beams, ST10:Oct 73:2079:10071

Zar, Max
Design of Steel Chimney Liners, with Shih-Lung Chu and James M. Doyle, PO2:Oct 72:323:9256
TR:138:500

Zarghamee, Mehdi S.
Analysis of Structures by Quadratic Programming, EM5:Oct 71:1495:8431
Dsc: Osvaldo DeDonato and Giulio Maier, EM4:Aug 72:998:9125
TR:138:27

Zarling, John P.
Orthonormalization Applied to Ground-Water Flows, HY2:Feb 73:285:9546

Zavelani, Adolfo
See Giulio Maier, TN: EM4:Aug 73:897:9898

Zecher, Sidney
Dsc, CE:Apr 72:49, on Anti-Technology--The New Myth, CE:Jan 72:68

Zeevaert, Leonardo
Design of Compensated Foundations, State-of-Art Report 1, TB:73:Ia-11-853

Zemitis, Elmars J.
Dsc, CE:Dec 73:22, on Designing Bridge Decks That Won't Deteriorate, CE:Aug 73:43

Zetlin, Lev
Structures for Undersea Exploration, with I. Paul Lew and Richard L. Tomasetti, Preprint No.1914, Jan 73

Zettlemoyer, Albert C.
Welcoming Remarks at Tall Buildings Conference, TB:73:C-25

Zhadan, V. I.
See I. K. Nikitin, ISSF:Aug 72:635

Zia, Paul
See Hota V.S. GangaRao, ST1:Jan 73:183:9501

Zieman, Hartmut
Dsc, SU1:Sept 73:142:9965, of "Theoretical Weighting of Photogrammetric Equations", SU2:Nov 72:127:9346

Zilch, Kon
See Hubert Beck, TB:73:III-23-499

Zimmerli, Bruno
Model for Ultimate Strength of Shear Walls, TB:73:III-21-296

Zimmie, Thomas F.
See Richard P. Long, TN: SM7:July 73:583:9865

Zisman, S. L.
See I. I. Makarov, ISSF:Aug 72:371

Zolkov, Elias
Dsc, SM4:Apr 72:436:8801, of "Simplified Procedure for Evaluating Soil Liquefaction Potential", SM9:Sept 71:1249:8371
Dsc, SM12:Dec 72:1421:9394, of "Acceleration of Lime-Clay Reactions with Salt", SM4:Apr 72:327:8827
Dsc, CE:June 73:24, on An American Engineer in Israel, CE:June 72:63

Zuazo, J. Fernandez
Construction of Keban Dam on the Euphrates River, Turkey, Preprint No.1900, Jan 73

Zuk, William
Prefabricated Highways, TE2:May 72:387:8895
TR:138:204

Zundelevich, Samuel
See Lloyd Sako, TE3:Aug 73:597:9915

Zupan, Jeffrey M.
Social Implications of Land Use and Mode Choice, TE2:May 73:383:9750
Dsc, TE2:May 73:427:9691, of "Four-Day Week and Transportation", TE3:Aug 72:705:9116

Zweben, Carl H.
Dsc, CE:Nov 72:49, on Fracture Mechanics, With High-Strength Steels A Must, CE:Aug 72:37
Dsc, CE:Sept 73:29, on "Quo Vadis, ASCE?", CE:June 73:59

Zwoyer, Eugene
Are ASCE Dues Too High, CE:May 73:43
ASCE Concern with Professional Conduct, CE:Oct 73:77
ASCE Signs Consent Decree on Competitive Bidding, CE:July 72:37
TR:138:315
Executive Director, CE:Oct 72:49
TR:138:437
On Some Joint Activities, CE:Jan 73:51
A Report from the Executive Director on Membership Dues, CE:Dec 72:29
Dsc: Al Rivera, CE:Oct 73:31
Clo: CE:June 73:55
TR:138:516